

#13
NW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Whitsett, et al.)	Group Art Unit 1653
)	
Appl. No.	:	09/558,576)	
)	
Filed	:	April 26, 2000)	
)	
For	:	SURFACTANT PROTEIN D)	
		FOR THE PREVENTION AND)	
		DIAGNOSIS OF)	
		PULMONARY EMPHYSEMA)	
)	
Examiner	:	Schnizer, H.)	

DECLARATION UNDER 35 CFR §1.132

1. I, Jeffrey Whitsett, M.D. am an inventor on the above-identified patent application and am familiar with the specification and prosecution history.

2. I have extensive experience in the field of immunology and molecular biology as evidenced by my attached curriculum vitae (Exhibit A).

3. The previous experiments by Van Iwaarden, et al. as referenced in Johansson, et al. (J. Eur. Respir. 1994, Vol. 7, pages 372-391) and as referred to by the Examiner, show that SP-D increased superoxide production in alveolar macrophages *in vitro*. However, a clinician would not be motivated to make a pharmaceutical composition comprising SP-D to treat inflammatory diseases of the lung with this knowledge. This is because, increased superoxide production correlates with increased inflammation. As discussed below, this would actually lead one of skill in the art not to employ SP-D as a pharmaceutical composition.

4. A clinician would be motivated to treat lung disease with a pharmaceutical which decreased inflammation. This is because the pathogenesis of lung diseases, including those lung diseases which are caused by pathogens (both bacterial or viral) and those which are not caused by pathogens (or are caused after the pathogen is killed or cleared - which occurs very rapidly) is due predominantly to uncontrolled inflammation.

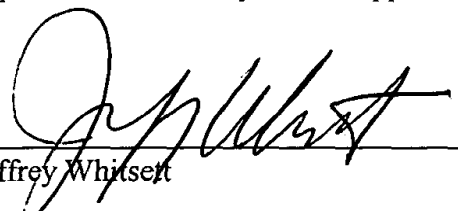
Appl. No. : 09/558,576
Filed : April 26, 2000

For example, lung diseases caused by bacteria are currently treated with antibiotics which rapidly and effectively clear the lung of the infectious agent. However, the inflammation in acute and chronic lung diseases often continues after clearance of the pathogen due to the host inflammatory response. The pathogenesis of lung diseases such as emphysema and chronic obstructive lung disease is predominantly due to inflammatory processes and not directly related to the ongoing presence of the pathogen or its products. The pathogenesis of lung inflammation or chronic lung disease caused by viruses is often due predominantly to inflammation. The viruses are generally killed and cleared rapidly after a certain period of time, but the symptoms and pathogenesis of lung disease continues as a result of the inflammation.

5. Further, the experiments in Yoshida et al. Journal of Immunology, 166, 75, 14, 2001, were done under my control and all statements in the article are accurate. These experiments were done *in vivo* in a mouse model and show that, surprisingly, SP-D does not increase inflammation as shown in the *in vitro* experiments of Van Iwaarden, et al. In fact, the experiments as well as the data with the knockout mouse in the present patent application show that SP-D actually decreases inflammation, making it a preferred treatment for infectious and non-infectious lung diseases (see page 20, Example 7). It is likely that in the experiments by Van Iwaarden, et al. the SP-D was contaminated with an inflammatory substance such as lipopolysaccharide (LPS), a bacterial endotoxin. This would lead to the incorrect results showing that SP-D was pro-inflammatory, when our results correctly show that SP-D is anti-inflammatory.

6. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or patent issuing therefrom.

Dated: 2/26/02

By: 
Jeffrey Whitsett



CURRICULUM VITAE

Jeffrey A. Whitsett, M.D.
Children's Hospital Medical Center
Children's Hospital Research Foundation
Division of Pulmonary Biology
3333 Burnet Avenue
Cincinnati, OH 45229-3039
(513) 636-4830
jeff.whitsett@chmcc.org

PERSONAL DATA

Born: May 19, 1947, Cleveland, OH USA
Married: Four children - Sarah 1976, Anna 1979, Margaret 1982, David 1985
Wife: Dorinda Dew

UNDERGRADUATE EDUCATION 1969 Colgate University, Hamilton, NY, B.A. Chemistry

MEDICAL EDUCATION 1973 Columbia University, New York, NY, M.D.

CLINICAL TRAINING 1973-1974 Internship - Mt. Sinai Hospital, New York, NY
1974-1976 Residency - Mt. Sinai Hospital, New York, NY

POSTGRADUATE TRAINING 1976-1977 Neonatology Fellowship - Children's Hospital Medical Center, University of Cincinnati College of Medicine

ACADEMIC

1995	Director, Divisions of Neonatology and Pulmonary Biology
1994	Vice Chairperson, Department of Pediatrics, Children's Hospital Medical Center
1988	Director, Division of Pulmonary Biology
1985	Professor of Pediatrics, and Pharmacology and Cell Biophysics, University of Cincinnati College of Medicine
1984	Director Research, Newborn Division
1981	Associate Professor of Pediatrics
1981	Research Associate, Division of Cell Biology, Institute for Developmental Research
1978	Assistant Professor of Pediatrics
1977	Instructor in Research Pediatrics, University of Cincinnati

HONORS

1969	High Honors in Chemistry, Magna Cum Laude, Colgate University, Phi Beta Kappa
1973	Community Medicine Award, Columbia University
1979	Certified by American Board of Pediatric Examiners
1979	Board Certified Neonatology
1981	Sigma Xi Research Award, University of Cincinnati
1987	American Society for Clinical Investigation
1987-92	Member, NIH Study Section, Human Embryology and Development
1988	E. Mead Johnson Award
1992	Council Member, Society Pediatric Research
1992	NIH Merit Award
1993	Chair, North American Cystic Fibrosis Meeting
1994	1st Julius Comroe Award in Pulmonary Research, FASEB
1995	Amberson Lecture Award - American Thoracic Society
1993-	Review Board - Basil O'Connor, March of Dimes
1996	William Cooper Procter Award - The Children's Hospital, Cincinnati
2001	Daniel Drake Award - The University of Cincinnati

LICENSURE Ohio, Kentucky

SOCIETIES

Society for Pediatric Research 1980
American Society Clinical Investigation 1986
American Society of Cell Biologists 1989
American Society for Clinical Investigation, Inc., Member of the Editorial Committee

COMMUNITY SERVICE Chairman, Outreach Committee, Church of the Redeemer, Hyde Park, 1983-1986
Member of Medical Care for the Homeless Committee, 1984
Medical Committee, Walk-in-Center, Cincinnati, OH 1983-1986
Member Church Choir, Church of Redeemer, 1987-1986
Member Cincinnati Choral Society, 1982-1983
Board Member, Health Initiative

CLINICAL APPOINTMENTS Children's Hospital Medical Center, Cincinnati, OH
University Hospital, Cincinnati, OH
Jewish Hospital, Cincinnati, OH
St. Elizabeth Hospital, Edgewood, KY
Christ Hospital, Cincinnati, OH
Mercy Hospital, Cincinnati, OH
Bethesda Hospital, Cincinnati, OH
Good Samaritan Hospital, Cincinnati, OH, Director, Tri-Health Neonatology
Franciscan, Mt. Airy Hospital, Cincinnati, OH

TRAINEES (graduate and postgraduate) past and present:

John Moore, M.D.	John Baatz, Ph.D.	Sarah Gebb, Ph.D.
Akihiko Noguchi, M.D.	Gloria Pryhuber, M.D.	Andreas Holzinger, M.D.
Karen Kalenyak, M.D.	David Lattier, Ph.D.	Zsuzsanna Zsengeller, M.D.
Timothy Weaver, Ph.D.	Barry Stripp, Ph.D.	Lan Zhou, M.D., Ph.D.
Ward Rice, M.D., Ph.D.	Anne Horowitz, Ph.D.	Jackie Reed, Ph.D.
Gary Ross, Ph.D.	Carol Kerlakian, Ph.D.	Ann Marie LeVine, M.D.
Bryan Ohning, M.D., Ph.D.	Susan Kelly, Ph.D.	Keisuke Tokieda, M.D.
Lawrence Nogee, M.D.	Stephan Glasser, Ph.D.	Shin-Ya Hayashida, M.D.
Michael McMahan, M.D.	Jessica Shaw-White, Ph.D.	Mitshiro Yoshida,
Thomas Korfhagen, M.D., Ph.D.	Liqian Zhang, Ph.D.	Brian Hyatt, Ph.D.
Rita Ryan, M.D.	Kazushige Ikeda, M.D.	
Rashmin Savani, M.D.	Cong Yan, Ph.D.	
Tara Burnette, M.D.	Cindy Bachurski, Ph.D.	
Melanie D'Amore, Ph.D.	Jay Tichelaar, Ph.D.	
Keith Kropp, Ph.D.	Kevin Harrod, Ph.D.	
Susan Wert, Ph.D.	Zissis Chroncos, Ph.D.	

GRADUATE STUDENTS

Michael A. O'Reilly, Ph.D. - Developmental Biology	Zvezdana (Stella) Sever - Ph.D. Student
Stephan W. Glasser, Ph.D. - Developmental Biology	Jackie Huffman - Ph.D. Student
Robert Bohinski - Ph.D./M.D. Student	Xin Zeng - Ph.D. Student
Kathryn Wikenheiser - Ph.D./M.D. Student	Cong Liu - Developmental Biology
Diane Vorbroker - Ph.D. Student	Paul Reynolds - Developmental Biology
Kwon-Sik Park - Developmental Biology	Huajing Wan - Cell Biology

PATENTS

Surfactant protein-C US patent# 5,013,720
5,387,746
Nucleic Acid Sequences Controlling Lung Cell-Specific Gene Expression, US patent# 5,976,873

BIBLIOGRAPHY

ARTICLES

1. Whitsett, J.A. and Tsang, R.C.: *In vitro* effects of fatty acids on serum ionized calcium. J. Pediatr. 91:223-236, 1977.
2. Whitsett, J.A. and Lessard, J.: Characteristics of the microvillus brush border of human placenta insulin receptor localization in brush border membranes. Endocrinology 103:1458-1470, 1978.
3. Whitsett, J.A., Johnson, C. and Hawkins, K.: Differences in the localization of adenylate cyclase and insulin receptors in the human placenta. Am. J. Obstet. Gynecol. 133:204-207, 1979.
4. Whitsett, J.A. and Johnson, C.: Adenylate cyclase from human decidua parietalis. Am. J. Obstet. Gynecol. 133:479-483, 1979.
5. Whitsett, J.A. and Wallick, E.: Na-K-ATPase and [³H]ouabain binding in human placental membranes. Am. J. Physiol. 238:E38-E45, 1980.
6. Whitsett, J.A. and Tsang, R.C.: Calcium uptake and binding by membrane fractions of human placenta: ATP-dependent calcium accumulation. Pediatr. Res. 14:769-775, 1980.
7. Whitsett, J.A.: Specializations in plasma membrane of the human placenta. J. Pediatr. 96:600-604, 1980.
8. Whitsett, J.A., Johnson, C.L., Noguchi, A., Darovec-Beckerman, C. and Costello, M.: β -Adrenergic receptor and catecholamine sensitive adenylate cyclase in the human placenta. J. Clin. Endo. Metab. 50:27-32, 1980.
9. Johnson, D.R., Kleinman, L.I. and Whitsett, J.A.: Effects of lead on renal responsiveness to antidiuretic hormone in young rats. Toxicology and Applied Pharmacology 53:299-305, 1980.
10. Whitsett, J.A., Darovec-Beckerman, C., Adams, K., Pollinger, J. and Needleman, H.: Thyroid hormone mediates the development of pulmonary β -adrenergic receptors in the rat. Biochem. Biophys. Res. Commun. 97:913-917, 1980.
11. Whitsett, J.A., Noguchi, A., Johnson, C. and Neely, J.: β -Adrenergic receptors and catecholamine sensitive adenylate cyclase in human neuroblastoma. Brain Res. 216:73-87, 1981.
12. Moore, J.J. and Whitsett, J.A.: The β -adrenergic receptor in human placenta: receptor subtype analysis (β_1 and β_2) and partial characterization of the solubilized receptor. Placenta 3:103-115, 1981.
13. Whitsett, J.A. and Darovec-Beckerman, C.: Developmental aspects of β -Adrenergic receptors and catecholamine-sensitive adenylate cyclase in rat myocardium. Pediatr. Res. 15:1363-1369, 1981.
14. Whitsett, J.A., Manton, M.A., Darovec-Beckerman, C., Adams, K.G. and Moore, J.J.: Development of β -adrenergic receptors in fetal rabbit lung. Am. J. Physiol. 240:E351-E357, 1981.
15. Whitsett, J.A., Manton, M.A., Darovec-Beckerman, C. and Adams, K.G.: β -Adrenergic receptors and catecholamine sensitive adenylate cyclase in the developing rat lung. Life Sciences 28:339-345, 1981.
16. Whitsett, J.A., Noguchi, A. and Moore, J.: Developmental aspects of α - and β -adrenergic receptors. Seminars in Perinatology 6:125-141, 1982.
17. Whitsett, J.A., Ho, M., Tsang, R.C., Norman, E. and Adams, K.: Synthesis of 1,25-dihydroxyvitamin D3 by human placenta *in vitro*. J. Clin. Endo. Metab. 53:484-488, 1981.

18. Noguchi, A., Whitsett, J.A. and Dickman, L.: Ontogeny of myocardial α_1 -adrenergic receptors in the rat. Dev. Pharmacol. Therap. 3:179-188, 1981.
19. Whitsett, J.A., Pollinger, J. and Matz, S.: β -Adrenergic receptors and catecholamine sensitive adenylate cyclase in developing rat ventricular myocardium: effect of thyroid status. Pediatr. Res. 16:463-469, 1982.
20. Whitsett, J.A., Darovec-Beckerman, C. and Rice, W.R.: Adenylate cyclase activity in developing rat lung: effects of guanine nucleotides. Pediatr. Res. 17:553-561, 1983.
21. Whitsett, J.A., Machulskis, A., Noguchi, A. and Burdsall, J.A.: Ontogeny of α_1 and β -adrenergic receptors in rat lung. Life Sciences 30:139-145, 1982.
22. Moore, J.J. and Whitsett, J.A.: β -Adrenergic receptors in mammalian placentas: species differences and ontogeny. Placenta 3:257-268, 1982.
23. Whitsett, J.A., Darovec-Beckerman, C., Pollinger, J. and Moore, J.J.: Ontogeny of β -adrenergic receptors in the rat lung: effects of hypothyroidism. Pediatr. Res. 16:381-387, 1982.
24. Moore, J.J., Workman, L. and Whitsett, J.A.: Trophoblastic cells of the hydatidiform mole contain a β_1 -subtype adrenergic receptor. J. Clin. Endo. and Metab. 55:341-345, 1982.
25. Whitsett, J.A., Burdsall, J., Workman, L., Hollinger, B. and Neely, J.: β -Adrenergic receptors in pediatric tumors: uncoupled β_1 -adrenergic receptor in Ewing's sarcoma. J. Natl. Cancer Institute 71:779-786, 1983.
26. Moore, J.J., Baker, J.V. and Whitsett, J.A.: cAMP-dependent protein kinase and cAMP, cGMP and calcium stimulated phosphorylation in human placenta: comparison of cytosol and membrane fractions. Trophoblast Research 1:185-196, 1983.
27. Whitsett, J.A., Matz, S. and Darovec-Beckerman, C.: cAMP dependent protein kinase and protein phosphorylation in developing rat lung. Pediatr. Res. 17:959-966, 1983.
28. Moore, J.J., Baker, J. and Whitsett, J.A.: Adenosine 3'5'-monophosphate (cAMP) binding protein and cAMP dependent protein kinase in human placenta. J. Clin. Endo. and Metab. 56:1035-1041, 1983.
29. Tsang, R.C., Venkataraman, P.S., Ho, M., Steichen, J.J., Whitsett, J.A. and Greer, F.: The development of pseudohypoparathyroidism. Involvement of progressively increasing serum parathyroid hormone level, increased 1,25-dihydroxyvitamin D levels and "migratory" subcutaneous calcifications. Am. J. Dis. Child. 138:654-658, 1984.
30. Noguchi, A. and Whitsett, J.A.: Ontogeny of α_1 -adrenergic receptors in the rat myocardium: effects of hypothyroidism. Eur. J. Pharm. 86:43-50, 1983.
31. Whitsett, J.A. and Hollinger, B.: Muscarinic cholinergic receptors in developing rat lung. Pediatr. Res. 18:1136-1140, 1984.
32. Sawutz, D.G., Kalinyak, K., Whitsett, J.A. and Johnson, C.L.: Histamine H_2 receptor desensitization in HL-60 human promyelocytic leukemia cells. J. Pharm. Exp. Therap. 231:1-7, 1984.
33. Rice, W.R., Osterhoudt, K.C. and Whitsett, J.A.: Effects of cytochalasins on surfactant release in rat Type II epithelial cells. Biochim. Biophys. Acta 805:12-18, 1984.
34. Rice, W.R. and Whitsett, J.A.: Inhibition of surfactant release from isolated Type II cells by compound 48/80. Biochim. Biophys. Acta 805:261-267, 1984.
35. Weaver, T.R., Hull, W.M., Ross, G.F. and Whitsett, J.A.: Intracellular and oligomeric forms of surfactant-associated apolipoprotein(s) A in the rat. Biochim. Biophys. Acta 827:260-267, 1985.

36. Rice, W.R., Hull, W.M., Dion, C.A., Hollinger, B.A. and Whitsett, J.A.: Activation of cyclic AMP-dependent protein kinase during surfactant release from Type II pneumocytes. Exp. Lung Res. 9:135-149, 1984.
37. Workman, M., Soukup, S., Neely, J.E., Whitsett, J.A., Ballard E. and Lampkin, B.: Biologic characteristics of four Ewing's sarcomas. Cancer Genetics and Cytogenetics 15:212-225, 1985.
38. Whitsett, J.A., Hull, W., Dion, C. and Lessard, J.: cAMP-dependent actin phosphorylation in developing rat lung and Type II epithelial cells. Exp. Lung Res. 9:191-209, 1985.
39. Whitsett, J.A., Weaver, T., Hull, W., Ross, G. and Dion, C.: Synthesis of surfactant associated glycoprotein A by rat Type II epithelial cells: primary translation products and post-translational modification. Biochim. Biophys. Acta 828:162-171, 1985.
40. Whitsett, J.A., Hull, W., Ross, G. and Weaver, T.: Characteristics of human surfactant-associated glycoproteins A. Pediatr. Res. 19:501-508, 1985.
41. Weaver, T.E., Whitsett, J.A., Hull, W.M. and Ross, G.: Identification of canine pulmonary surfactant-associated glycoprotein A precursors. J. Appl. Physiol. 58:2091-2095, 1985.
42. Whitsett, J.A., Ross, G., Weaver, T., Rice, W., Dion, C. and Hull, W.: Glycosylation and secretion of surfactant-associated glycoprotein A. J. Biol. Chem. 260:15273-15279, 1985.
43. Kalinyak, K.A., Sawutz, D.G., Lampkin, B.C., Johnson, C.L. and Whitsett, J.A.: Effects of dimaprit on growth and differentiation of human promyelocytic cell line, HL-60. Life Sciences 36:1909-1961, 1985.
44. Ross, G.F., Meuth, J., Ohning, B., Yangkil, K. and Whitsett, J.A.: Purification of canine surfactant-associated glycoproteins A: identification of a collagenase-resistant domain. Biochim. Biophys. Acta 870:267-278, 1986.
45. Weaver, T.E., Hull, W.M., Ross, G. and Whitsett, J.A.: *In vitro* acetylation of rat pulmonary surfactant-associated glycoprotein(s) A primary translation products. Biochim. Biophys. Acta 869:330-336, 1986.
46. Mimouni, F., Miodovnik, M., Whitsett, J.A., Holroyde, J.C., Siddiqi, T.A. and Tsang, R.C.: Respiratory distress syndrome in the infants of diabetic mothers in the 1980's: no direct effect of maternal diabetes with modern management. Obstet. Gynecol. 69:191-195, 1987.
47. Weaver, T.E., Ross, G., Daugherty, C. and Whitsett, J.A.: Synthesis of surfactant-associated protein 35,000 in fetal lung organ culture. J. Appl. Physiol. 61:694-700, 1986.
48. Whitsett, J.A., Ohning, B.L., Ross, G., Meuth, J., Weaver, T., Holm, B.A., Shapiro, D.L. and Notter, R.H.: Hydrophobic surfactant-associated protein in whole lung surfactant and its importance for biophysical activity in lung surfactant extracts used for replacement therapy. Pediatr. Res. 20:460-467, 1986.
49. Whitsett, J.A., Hull, W.M., Ohning, B., Ross, G. and Weaver, T.E.: Immunologic identification of a pulmonary surfactant-associated protein of molecular weight = 6,000 daltons. Pediatr. Res. 20:744-749, 1986.
50. Ross, G.F., Ohning, B.L., Tannenbaum, D. and Whitsett, J.A.: Structural relationships of the major glycoproteins from human alveolar proteinosis surfactant. Biochim. Biophys. Acta 911:294-305, 1987.
51. O'Reilly, M.A., Nogee, L. and Whitsett, J.A.: Requirement of the collagenous domain for carbohydrate processing and secretion of surfactant protein, SP-A. Biochim. Biophys. Acta 969:176-184, 1988.

52. Rice, W.R., Ross, G.F., Singleton, F.M., Dingle, S. and Whitsett, J.A.: Surfactant-associated protein inhibits phospholipid secretion from Type II cells. J. Appl. Physiol. 63:692-698, 1987.
53. Ross, G.F., Notter, R.H., Meuth, J. and Whitsett, J.A.: Phospholipid binding and biophysical activity of pulmonary surfactant-associated protein (SAP)-35 and its non-collagenous COOH-terminal domain. J. Biol. Chem. 261:14283-14291, 1986.
54. Whitsett, J.A., Pilot, T., Clark, J. and Weaver, T.E.: Induction of surfactant protein in fetal lung: effects of cAMP and dexamethasone on SAP-35 RNA and synthesis. J. Biol. Chem. 262:5256-5261, 1987.
55. McMahan, M.J., Mimouni, F., Miodovnik, M., Hull, W.M. and Whitsett, J.A.: Surfactant-associated protein (SAP-35) in amniotic fluid from diabetic and non-diabetic pregnancies. Obstet. Gynecol. 70:94-98, 1987.
56. Notter, R.H., Shapiro, D.L., Ohning, B. and Whitsett, J.A.: Biophysical activity of synthetic phospholipids combined with purified lung surfactant 6,000 dalton apoprotein. Chem. Phys. Lipids, 44:1-17, 1987.
57. Glasser, S.W., Korfhagen, T.R., Weaver, T., Pilot-Matias, T., Fox, J.L. and Whitsett, J.A.: cDNA and deduced amino acid sequence of human pulmonary surfactant-associated proteolipid SPL(Phe). Proc. Natl. Acad. Sci. USA 84:4007-4011, 1987.
58. Whitsett, J.A., Weaver, T.E., Lieberman, M.A., Clark, J.C. and Daugherty, C.: Differential effects of epidermal growth factor and transforming growth factor- β on synthesis of Mr=35,000 surfactant-associated protein in fetal lung. J. Biol. Chem. 262:7908-7913, 1987.
59. Weaver, T.E., Kropp, K.L. and Whitsett, J.A.: *In vitro* sulfation of pulmonary surfactant-associated protein SAP-35. Biochim. Biophys. Acta 914:205-211, 1987.
60. Weaver, T.E., Sarin, V.K., Sawtell, N., Hull, W.M. and Whitsett, J.A.: Identification of surfactant proteolipid SP-B in human surfactant and fetal lung. J. Appl. Physiol. 65:982-987, 1988.
61. Glasser, S.W., Korfhagen, T.R., Weaver, T.E., Clark, J., Pilot-Matias, T., Meuth, J., Fox, J.L. and Whitsett, J.A.: cDNA, deduced polypeptide structure and chromosomal assignment of human pulmonary surfactant proteolipid: SPL(pVal). J. Biol. Chem. 263:9-12, 1988.
62. Whitsett, J.A., Weaver, T.E., Clark, J.C., Sawtell, N., Glasser, S.W., Korfhagen, T.R. and Hull, W.M.: Glucocorticoid enhances surfactant proteolipid Phe and pVal synthesis and RNA in fetal lung. J. Biol. Chem. 262:15618-15623, 1987.
63. Weaver, T.E. and Whitsett, J.A.: Processing of hydrophobic pulmonary surfactant protein B in rat Type II cells. Am. J. Physiol. 257 (Lung Cell. Mol. Physiol. 1): L100-L108, 1989.
64. O'Reilly, M.A., Gazdar, A.F., Morris, R.E. and Whitsett, J.A.: Differential effects of glucocorticoid on expression of surfactant proteins in a human lung adenocarcinoma cell line. Biochim. Biophys. Acta 970:194-204, 1988.
65. Glasser, S.W., Korfhagen, T.R., Perme, C.M., Pilot-Matias, T.J., Kister, S.E. and Whitsett, J.A.: Two genes encoding human pulmonary surfactant proteolipid SP-C. J. Biol. Chem. 263:10326-10331, 1988.
66. Wispé, J.R., Clark, J.C., Burhans, M.S., Kropp, K.E., Korfhagen, T.R. and Whitsett, J.A.: Synthesis and processing of the precursor for human manganese-superoxide dismutase. Biochim. Biophys. Acta 994:30-36, 1989.
67. Chung, J., Yu, S-H., Whitsett, J.A., Harding, P.G.R. and Possmayer, F.: Effect of surfactant-associated protein-A (SP-A) on the activity of lipid extract surfactant. Biochim. Biophys. Acta 1002:348-358, 1989.

68. Ryan, R.M., Morris, R.E., Rice, W.R., Ciruolo, G. and Whitsett, J.A.: Binding and uptake of pulmonary surfactant protein (SP-A) by pulmonary Type II epithelial cells. J. Histochem. Cytochem 37:429-440, 1989.
69. Pilot-Matias, T.J., Kister, S.E., Fox, J.L., Kropp, K., Glasser, S.W. and Whitsett, J.A.: Structure and organization of the gene encoding human pulmonary surfactant proteolipid SP-B. DNA 8:75-86, 1989.
70. O'Reilly, M.A., Weaver, T.E., Pilot-Matias, T.J., Sarin, V.K., Gazdar, A.F. and Whitsett, J.A.: *In vitro* translation, post-translational processing and secretion of pulmonary surfactant protein B precursors. Biochim. Biophys. Acta 1011:140-148, 1989.
71. Nogee, L., McMahan, M. and Whitsett, J.A.: Hyaline membrane disease and surfactant protein, SAP-35, in diabetes in pregnancy. Am. J. Perinatol. 5:374-377, 1988.
72. Rice, W.R., Sarin, V.K., Fox, J.L., Baatz, J., Wert, S. and Whitsett, J.A.: Surfactant peptides stimulate uptake of phosphatidylcholine by isolated cells. Biochim. Biophys. Acta 1006:237-245, 1989.
73. O'Reilly, M.A., Gazdar, A.F., Clark, J.C., Pilot-Matias, T.J., Wert, S.E., Hull, W.M. and Whitsett, J.A.: Glucocorticoids regulate surfactant protein synthesis in a pulmonary adenocarcinoma cell line. Am. J. Physiol. 257 (Lung Cell Mol. Physiol. 1):L385-L392, 1989.
74. Sarin, V.K., Gupta, S., Leung, T.K., Taylor, V., Ohning, B.L., Whitsett, J.A. and Fox, J.L.: Biophysical and biological activity of a synthetic 8.7 kDa hydrophobic pulmonary surfactant protein SP-B. Proc. Natl. Acad. Sci. USA 87:2633-2637, 1990.
75. Nogee, L.M., Wispé, J.R., Clark, J.C. and Whitsett, J.A.: Increased synthesis and mRNA of surfactant protein A in oxygen exposed rats. Am. J. Respir. Cell Mol. Biol. 1:119-125, 1989.
76. Farrell, P.M., Bourbon, J.R., Notter, R.H., Marin, L., Nogee, L.M. and Whitsett, J.A.: Relationships among surfactant fraction lipids, proteins and biophysical properties in the developing rat lung. Biochim. Biophys. Acta 1044:84-90, 1990.
77. Gerdes, J.S., Abbasi, S., Karp, K., Hull, W.M. and Whitsett, J.A.: Surfactant protein A in bronchoalveolar lavage fluid from neonates with RDS on conventional and high frequency oscillatory ventilation. Pediatric Pulmonology 9:166-169, 1990.
78. Batenburg, J.J. and Whitsett, J.A.: Levels of mRNA coding for lipogenic enzymes in rat lung upon fasting and refeeding and during perinatal development. Biochim. Biophys. Acta 1006:329-334, 1989.
79. Nogee, L.M., Wispé, J.R., Clark, J., Weaver, T.E. and Whitsett, J.A.: Increased expression of pulmonary surfactant proteins in oxygen-exposed rats. Am. J. Respir. Cell Mol. Biol. 4:102-107, 1991.
80. O'Reilly, M.A., Clark, J.C. and Whitsett, J.A.: Glucocorticoid enhances pulmonary surfactant protein B gene transcription. Am. J. Physiol. 260 (Lung Cell Mol. Physiol. 4):L37-L43, 1991.
81. Korfhagen, T.R., Glasser, S.W., Wert, S.E., Bruno, M.D., Daugherty, C.C., McNeish, J.D., Stock, J.L., Potter, S.S. and Whitsett, J.A.: Cis-acting sequences from a human surfactant protein gene confer pulmonary-specific gene expression in transgenic mice. Proc. Natl. Acad. Sci. USA 87:6122-6126, 1990.
82. Baatz, J.E., Elledge, B.A. and Whitsett, J.A.: Surfactant protein SP-B induces ordering at the surface of model membrane bilayers. Biochemistry 29:6714-6720, 1990.
83. Pryhuber, G.S., O'Reilly, M.A., Clark, J.C., Hull, W.M., Fink, I. and Whitsett, J.A.: Phorbol ester inhibits surfactant protein SP-A and SP-B expression. J. Biol. Chem. 265:20822-20828, 1990.

84. Lotze, A., Whitsett, J.A., Kammerman, L.A., Ritter, M., Taylor, G.A. and Short, B.A.: Surfactant protein A concentrations in tracheal aspirate fluid from infants requiring extracorporeal membrane oxygenation. J. Pediatrics 116:435-440, 1990.
85. Gazdar, A.F., Linnoila, R.I., Kurita, Y., Oie, H.K., Mulshine, J.L., Clark, J.C. and Whitsett, J.A.: Peripheral airway cell differentiation in human lung cancer cell lines. Cancer Research 50:5481-5487, 1990.
86. Slavkin, H.C., Johnson, R., Oliver, P., Bringas, P., Don-Wheeler, G., Mayo, M. and Whitsett, J.A.: Lamellar body formation precedes pulmonary surfactant apoprotein expression during embryonic mouse lung development *in vivo* and *in vitro*. Differentiation 41:223-236, 1989.
87. Venkitaraman, A.R., Baatz, J.E., Whitsett, J.A., Hall, S.B. and Notter, R.H.: Biophysical inhibition of synthetic phospholipid-lung surfactant apoprotein admixtures by plasma proteins. Chem. Phys. Lipids 57:49-57, 1991.
88. Wispé, J.R., Clark, J.C., Warner, B.B., Fajardo, D., Hull, W.M., Holtzman, R.B. and Whitsett, J.A.: Tumor necrosis factor-alpha inhibits expression of pulmonary surfactant protein. J. Clin. Invest. 86:1954-1960, 1990.
89. Tsao, F.H.C., Hull, W.M., Strickland, M.S., Whitsett, J.A., Foo, T.K.F., Zograf, G. and DeLuce, P.M.: Lung calcium-dependent phospholipid-binding proteins: structure and function. Biochim. Biophys. Acta 1081:141-150, 1991.
90. Whitsett, J.A., Hull, W.M. and Luse, S.: Failure to detect surfactant protein specific antibodies in sera of premature infants treated with Surfacta, a modified bovine surfactant. Pediatrics 87:505-510, 1991.
91. Glasser, S.W., Korfhausen, T.R., Bruno, M.D., Dey, C. and Whitsett, J.A.: Structure and expression of the pulmonary surfactant protein SP-C gene in the mouse. J. Biol. Chem. 265:21986-21991, 1990.
92. Venkitaraman, A.R., Hall, S.B., Whitsett, J.A. and Notter, R.H.: Enhancement of biophysical activity of lung surfactant extracts and phospholipid apoprotein admixtures by surfactant protein A. Chem. Phys. Lipids 56:185-194, 1990.
93. Ross, G.F., Sawyer, J., O'Connor, T. and Whitsett, J.A.: Intermolecular crosslinks mediate aggregation of phospholipid vesicles by pulmonary surfactant protein SP-A. Biochemistry 30:858-865, 1991.
94. Weaver, T.E. and Whitsett, J.A.: Function and regulation of expression of pulmonary surfactant-associated proteins. Biochem. J. 273:249-264, 1991.
95. Korfhausen, T.R., Glasser, S.W., Bruno, M.D., McMahan, M.J. and Whitsett, J.A.: A portion of the human SP-A gene locus consists of a pseudogene. Am. J. Respir. Cell Mol. Biol. 4:463-469, 1991.
96. Stahlman, M.T., Gray, M.E., Ross, G.F., Hull, W.M., Wikenheiser, K., Dingle, S., Zelenski-Low, K.R. and Whitsett, J.A.: Human surfactant protein-A contains blood group A antigenic determinants. Pediatr. Res. 31:364-371, 1992.
97. Lotze, A., Shapiro, D.L., Whitsett, J.A., Martin, G., Kushner, D.A., Short, B.L.: Treatment of respiratory failure with surfactant in infants on ECMO. J. Pediatr. 122:261-268, 1993.
98. Stripp, B.R., Whitsett, J.A. and Lattier, D.L.: Strategies for analysis of gene expression: pulmonary surfactant proteins. Am. J. Physiol.: Lung Cell Mol. Physiol. 259:L185-L197, 1990.
99. Pryhuber, G.S., Hull, W.M., Fink, I., McMahan, M.J. and Whitsett, J.A.: Ontogeny of surfactant proteins A and B in human amniotic fluid as indices of fetal lung maturity. Pediatr. Res. 30:597-605, 1991.

100. Gerdes, J.S., Whitsett, J.A. and Long, W.: Elastase activity and surfactant protein concentration in tracheal aspirates from neonates receiving synthetic surfactant. J. Pediatr. 120:S34-S39, 1992.
101. Broers, J.L.V., Jensen, S.M., Gazdar, A.F., Travis, W.D., Pass, H., Whitsett, J.A., Singh, G., Katyal, S.L., Minna, J.D. and Linnoila, R.I.: Expression of surfactant-associated protein-A and Clara cell 10 kilodalton mRNA in neoplastic and non-neoplastic human lung tissue as detected by *in situ* hybridization. Lab. Invest. 66:337-346, 1992.
102. Baatz, J.E., Sarin, V., Absolom, D.R., Baxter, C. and Whitsett, J.A.: Effects of surfactant-associated protein SP-B synthetic analogs on the structure and surface activity of model membrane bilayers. Chem. Phys. Lipids 60:163-178, 1991.
103. Glasser, S.W., Korfhagen, T.R., Wert, S.E., Bruno, M.D., McWilliams, K.M., Vorbroeker, D.K. and Whitsett, J.A.: Genetic element from human surfactant protein SP-C gene confers bronchiolar-alveolar cell specificity in transgenic mice. Am. J. Physiol.: Lung Cell Mol. Physiol. 261:L349-L356, 1991.
104. Hall, S.B., Venkitaraman, A.R., Whitsett, J.A., Holm, B.A. and Notter, R.H.: Importance of hydrophobic apoproteins as constituents of clinical exogenous surfactants. Am. Rev. Respir. Dis. 145:24-30, 1992.
105. Plopper, C.G., St. George, J.A., Read, L.C., Nishio, S.J., Weir, A.J., Edwards, L., Tarantal, A.F., Pinkerton, K.E., Merritt, T.A., Whitsett, J.A., George-Nascimento, C. and Styne, D.: Acceleration of alveolar Type II cell differentiation in the fetal Rhesus monkey lung by administration of epidermal growth factor. Am. J. Physiol.: Lung Cell Mol. Physiol. 262:L313-L321, 1992.
106. Gregory, T.J., Longmore, W.J., Moxley, M.A., Whitsett, J.A., Reed, C.R., Fowler, A.A., Hudson, L.D., Maunder, R.J., Crim, C., Hyers, T.M.: Surfactant chemical composition and biophysical activity in acute respiratory distress syndrome. J. Clin. Invest. 88:1976-1981, 1991.
107. Horowitz, A.D., Elledge, B., Whitsett, J.A. and Baatz, J.E.: Effects of lung surfactant proteolipid SP-C on the organization of model membrane lipids: a fluorescence study. Biochim. Biophys. Acta 1107:44-54, 1992.
108. Whitsett, J.A., Budden, A., Hull, W.M., Clark, J.C. and O'Reilly, M.A.: Transforming growth factor- β inhibits surfactant protein A expression *in vitro*. Biochim. Biophys. Acta 1123:257-262, 1992.
109. Thorkelsson, T., Ciruolo, G.M., Ross, G.F., Whitsett, J.A. and Morris, R.E.: The lectin activity of the major surfactant protein (SP-A) may participate in, but is not required for, binding to rat Type II cells. J. Histochem. Cytochem 40:643-649, 1992.
110. D'Amore-Bruno, M.A., Wikenheiser, K.A., Carter, J.E., Clark, J.C. and Whitsett, J.A.: Sequence, ontogeny and cellular localization of murine surfactant protein B mRNA. Am. J. Physiol.: Lung Cell Mol. Physiol. 262(6):L40-L47, 1992.
111. Stahlman, M.T., Gray, M.E. and Whitsett, J.A.: The ontogeny and distribution of surfactant protein B in human fetuses and newborns. J. Histochem. Cytochem 40:1471-1480, 1992.
112. Wikenheiser, K.A., Wert, S.E., Wispé, J.R., Stahlman, M., D'Amore-Bruno, M., Singh, G., Katyal, S.L. and Whitsett, J.A.: Distinct effects of oxygen on surfactant protein B expression in bronchiolar and alveolar epithelium. Am. J. Physiol.: Lung Cell Mol. Physiol. 262(6):L32-L39, 1992.
113. Moore, K.J., D'Amore-Bruno, M.A., Korfhagen, T.R., Glasser, S.W., Whitsett, J.A., Jenkins, N.A. and Copeland, N.G.: Chromosomal localization of three pulmonary surfactant protein genes in the mouse. Genomics 12:388-393, 1992.
114. Whitsett, J.A., Clark, J.C., Wispé, J.R. and Pryhuber, G.S.: Effects of TNF- α and phorbol ester on human surfactant protein and MnSOD gene transcription *in vitro*. Am. J. Physiol.: Lung Cell Mol. Physiol. 262(6):L688-L693, 1992.

115. Stripp, B.R., Sawaya, P.I., Luse, D.S., Wikenheiser, K.A., Wert, S.E., Huffman, J.A., Lattier, D.L., Singh, G., Katyal, S.L. and Whitsett, J.A.: Cis-acting elements that confer lung epithelial cell expression of the CC10 gene. J. Biol. Chem. 267:14703-14712, 1992.
116. Vorbroker, D.K., Dey, C., Weaver, T.E. and Whitsett, J.A.: Surfactant protein C precursor is palmitoylated and associates with subcellular membranes. Biochim. Biophys. Acta 1105:161-169, 1992.
117. Korfhagen, T.R., Bruno, M.D., Glasser, S.W., Ciraolo, P.J., Whitsett, J.A., Lattier, D.L., Wikenheiser, K.A. and Clark, J.C.: Murine pulmonary surfactant SP-A gene: cloning, sequence and transcriptional activity. Am. J. Physiol.: Lung Cell Mol. Physiol. 263(7):L546-L554, 1992.
118. Lesur, O., Veldhuizen, R.A.W., Whitsett, J.A., Hull, W.M., Possmayer, F., Cantin, A. and Begin, R.: Surfactant-associated proteins (SP-A, SP-B) are increased proportionally to alveolar phospholipids in sheep silicosis. Lung 171(2):63-74, 1993.
119. Wispé, J.R., Warner, B.B., Clark, J.C., Dey, C.R., Neuman, J., Glasser, S.W., Crapo, J.D., Chang, L-Y. and Whitsett, J.A.: Human Mn-superoxide in pulmonary epithelial cells of transgenic mice confers protection from oxygen injury. J. Biol. Chem. 267:23937-23941, 1992.
120. Wert, S.E., Glasser, S.W., Korfhagen, T.R. and Whitsett, J.A.: Transcriptional elements from the human SP-C gene direct expression in the primordial respiratory epithelium of transgenic mice. Dev. Biol. 156:426-443, 1993.
121. Whitsett, J.A., Dey, C., Stripp, B.R., Wikenheiser, K.A., Clark, J.C., Wert, S.E., Gregory, R.J., Smith, A.E., Cohn, J.A., Wilson, J.M. and Engelhardt, J.: Human cystic fibrosis transmembrane conductance regulator directed to respiratory epithelial cells of transgenic mice. Nature Genetics 2:13-20, 1992.
122. Wikenheiser, K.A., Clark, J.C., Linnoila, R.I., Stahlman, M.T. and Whitsett, J.A.: SV₄₀ large T antigen directed by transcriptional elements of the human SP-C gene produces pulmonary adenocarcinoma in transgenic mice. Cancer Res. 52:5342-5352, 1992.
123. Baughman, R.P., Sternberg, R.I., Hull, W., Buchsbaum, J.A. and Whitsett, J.A.: Decreased surfactant protein A in patients with bacterial pneumonia. Am. Rev. Respir. Dis. 147:653-657, 1993.
124. Baatz, J.E., Smyth, K.L., Whitsett, J.A., Baxter, C. and Absolom, D.R.: Structure and functions of a dimeric form of surfactant protein SP-C: A Fourier transform infrared and surfactometry study. Chem. Phys. Lipids 63:91-104, 1992.
125. Veldhuizen, R.A.W., Lee, J., Sandler, D., Hull, W., Whitsett, J.A., Lewis, J., Possmayer, F. and Novick, R.J.: Alterations in pulmonary surfactant composition and activity after experimental lung transplantation. Am. Rev. Respir. Dis. 148:208-215, 1993.
126. Rider, E.D., Ikegami, M., Whitsett, J.A., Hull, W., Absolom, D. and Jobe, A.H.: Treatment responses to surfactants containing natural surfactant proteins in preterm rabbits. Am. Rev. Respir. Dis. 147(3):669-676, 1993.
127. Voorhout, W.F., Veenendaal, T., Haagsman, H.P., Weaver, T.E., Whitsett, J.A., VanGolde, L.M.G. and Geuze, H.J.: Intracellular processing of pulmonary surfactant protein B in an endosomal/lysosomal compartment. Am. J. Physiol. (Lung Cell Mol. Physiol.) 263(7):L479-L486, 1992.
128. Lotze, A., Knight, G.R., Martin, G.R., Bulas, D.I., Hull, W.M., O'Donnell, R.M., Whitsett, J.A. and Short, B.L.: Improved pulmonary outcome after exogenous surfactant therapy for respiratory failure in term infants requiring extracorporeal membrane oxygenation. J. Pediatr. 122:261-268, 1993.

129. Khor, A., Gray, M.E., Hull, W.M., Whitsett, J.A., Stahlman, M.T.: Developmental expression of SP-A and SP-A mRNA in the proximal and distal respiratory epithelium in the human fetus and newborn. J. Histochem. Cytochem 41:1311-1319, 1993.
130. Bohinski, R.J., Huffman, J.A., Whitsett, J.A. and Lattier, D.L.: cis-Active elements controlling lung cell specific expression of human pulmonary surfactant protein B gene. J. Biol. Chem. 268:11160-11166, 1993.
131. Horowitz, A.D., Baatz, J.E. and Whitsett, J.A.: Lipid effects on aggregation of pulmonary surfactant protein SP-C studied by fluorescence energy transfer. Biochemistry 32:9513-9523, 1993.
132. Sawaya, P.L., Stripp, B.R., Whitsett, J.A. and Luse, D.S.: The lung-specific CC10 gene is regulated by transcription factors from the AP-1, octamer and HNF-3 families. Mol. Cell. Biol. 13:3860-3871, 1993.
133. Lesur, O., Bouhadiba, T., Melloni, B., Cantin, A., Whitsett, J.A. and Begin, R.: Alterations of surfactant lipid turnover in silicosis: evidence of a role for surfactant-associated protein A (SP-A). Int. J. Exp. Pathol. 76:287-296, 1995.
134. Sternberg, R.I., Whitsett, J.A., Hull, W.M. and Baughman, R.P.: *Pneumocystis carinii* alters surfactant protein-A concentrations in bronchoalveolar lavage fluid. J. Lab. Clin. Med. 125:462-469, 1995.
135. Wikenheiser, K.A., Vorbroke, D.K., Rice, W.R., Clark, J.C., Bachurski, C.J., Oie, H.K., Whitsett, J.A.: Production of immortalized distal respiratory epithelial cell lines from surfactant protein C/simian virus 40 large tumor antigen transgenic mice. Proc. Natl. Acad. Sci. USA 90:11029-11033, 1993.
136. Pryhuber, G.S., Church, S.L., Kroft, T., Panchal, A. and Whitsett, J.A.: The 3' untranslated region of surfactant protein B mRNA mediates inhibitory effects of TPA and TNA- α on SP-B expression. Am. J. Physiol. 267 (Lung Cell Mol. Physiol.) L16-L24, 1994.
137. Goetzman, B.W., Read, L.C., Plopper, C.G., Tarantal, A.F., George-Nascimento, C., Merritt, T.A., Whitsett, J.A. and Styne, D.: Prenatal exposure to epidermal growth factor attenuates respiratory distress syndrome in rhesus infants. Pediatr. Res. 35:30-36, 1994.
138. Lewis, J.F., Veldhuizen, R., Possmayer, F., Sibbald, W., Whitsett, J.A., Qanbar, R. and McCaig, L.: Altered alveolar surfactant is an early marker of lung injury in adult septic sheep. Am. Rev. Respir. Dis. 150:123-130, 1994.
139. Peters, K., Werner, S., Liao, X., Wert, S., Whitsett, J.A. and Williams, L.: Targeted expression of a dominant negative FGF receptor blocks branching morphogenesis and epithelial differentiation of the mouse lung. EMBO J 13:3296-3301, 1994.
140. Hamvas, A., Cole, F.S., deMello, D., Moxley, M., Whitsett, J., Colten, H.R. and Nogee, L.: Surfactant protein-B deficiency: antenatal diagnosis and prospective treatment with surfactant replacement. J. Peds. 125:356-361, 1994.
141. Korfhagen, T.R., Swantz, R.J., Wert, S.E., McCarty, J.M., Kerlakian, C.B., Glasser, S.W. and Whitsett, J.A.: Respiratory epithelial cell expression of human transforming growth factor- α induces lung fibrosis in transgenic mice. J. Clin. Invest. 93:1691-1699, 1994.
142. Yei, S., Bachurski, C.J., Weaver, T.E., Wert, S.E., Trapnell, B.C. and Whitsett, J.A.: Adenoviral mediated gene transfer of human surfactant protein B to respiratory epithelial cells. Am. J. Respir. Cell and Mol. Biol. 11:329-336, 1994.
143. Ikeda, K., Clark, J.C., Bachurski, C.J., Wikenheiser, K.A., Cuppoletti, J., Mohanti, S., Morris, R.E. and Whitsett, J.A.: Immortalization of subpopulations of respiratory epithelial cells from transgenic mice bearing SV40 large T antigen. Am. J. Physiol. 267 (Lung Cell Mol. Physiol.) L309-L317, 1994.

144. Mittereder, N., Yei, S., Bachurski, C., Cuppoletti, J., Whitsett, J.A., Tolstoshev, P. and Trapnell, B.C.: Evaluation of the efficacy and safety of *in vitro*, adenovirus-mediated transfer of the human cystic fibrosis transmembrane conductance regulator cDNA. Hum. Gene Ther. 5:717-729, 1994.
145. Yei, S., Mittereder, N., Wert, S., Whitsett, J.A., Wilmott, R.W. and Trapnell, B.C.: *In vivo* evaluation of the safety of adenovirus-mediated transfer of the human cystic fibrosis transmembrane conductance regulator cDNA to the lung. Hum. Gene Ther. 5:731-744, 1994.
146. DeCosmo, B.F., Geba, G.P., Picarella, D., Elias, J.A., Rankin, J.A., Stripp, B.R., Whitsett, J.A. and Flavell, R.A.: Airway epithelial cell expression of interleukin-6 in transgenic mice: uncoupling of airway inflammation and bronchial hyperreactivity. J. Clin. Invest. 94:2028-2035, 1994.
147. Dranoff, G., Crawford, A.D., Sadelain, M., Ream, B., Rashid, A., Bronson, R.T., Dickersin, G.R., Bachurski, C.J., Mark, E.I., Whitsett, J.A. and Mulligan, R.C.: Involvement of granulocyte-macrophage colony stimulating factor in normal pulmonary homeostasis. Science 264:713-716, 1994.
148. Bruno, M.A., Bohinski, R.J., Carter, J.E., Foss, K.A. and Whitsett, J.A.: Structure and function of the mouse surfactant protein B gene. Am. J. Physiol. 268 (Lung Cell Mol. Physiol): L381-L390, 1995.
149. Khor, A., Stahlman, M.T., Gray, M.E. and Whitsett, J.A.: Temporal-spatial distribution of SP-B and SP-C proteins and mRNAs in the developing respiratory epithelium of human lung. J. Histochem. Cytochem 42:1187-1199, 1994.
150. Li, H., Witte, D.P., Branford, W.W., Aronow, B.J., Weinstein, M., Kaur, S., Wert, S., Singh, G., Schreiner, C.M., Whitsett, J.A., Scott, W.J. and Potter, S.S.: Gsh-4 encodes a LIM-type homeodomain, is expressed in the developing central nervous system, and is required for early postnatal survival. EMBO J. 13:2876-2885, 1994.
151. Bohinski, R.J., DiLauro, R. and Whitsett, J.A.: Lung-specific surfactant protein B gene promoter is a target for thyroid transcription factor 1 and hepatocyte nuclear factor 3 indicating common mechanisms for organ-specific gene expression along the foregut axis. Mol. Cell Biol. 14:5671-5681, 1994.
152. Glasser, S.W., Korfhagen, T.R., Wert, S.E. and Whitsett, J.A.: Transgenic models for study of pulmonary development and disease. Am. J. Physiol. 267 (Lung Cell. Mol. Physiol.) L489-L497, 1994.
153. Lotze, A., Knight, G.R., Anderson, K.D., Hull, W.M., Whitsett, J.A., O'Donnell, R.M., Martin, G., Bulas, D.I. and Short, B.L.: Surfactant therapy for infants with congenital diaphragmatic hernia on ECMO: evidence of persistent surfactant deficiency. J. Pediatr. Surg. 29:407-412, 1994.
154. Coalson, J.J., King, R.J., Yang, F., Winter, V., Whitsett, J.A., deLemos, R.A. and Seidner, S.R.: SP-A deficiency in primate model of bronchopulmonary dysplasia with infection. *In situ* mRNA and immunostains. Am. J. Respir. Crit. Care Med. 151:854-866, 1995.
155. Zhou, L., Dey, C.R., Wert, S.E., DuVall, M.D., Frizzell, R.A. and Whitsett, J.A.: Correction of lethal intestinal obstruction in CF mice by expression of a human CFTR transgene. Science 266:1705-1708, 1994.
156. Ross, G.F., Morris, R.E., Ciruolo, G., Huelsman, K., Bruno, M., Whitsett, J.A., Baatz, J.E., and Korfhagen, T.R.: Surfactant protein-A-polylysine conjugates for delivery of DNA to airway cells in culture. Hum. Gene Ther. 6:31-40, 1995.
157. Wikenheiser, K.A. and Whitsett, J.A.: Tumor progression and cellular differentiation of pulmonary adenocarcinomas in SV40 large T antigen transgenic mice. Am. J. Respir. Cell Mol. Biol. 16:713-723, 1997.
158. Wikenheiser, K.A., Wert, S.E. and Whitsett, J.A.: SV40 early region genes alter alveolarization and surfactant protein mRNA expression in transgenic mice. Transgenics 2(3):311-326, 1998.

159. Vorbroker, D.K., Profitt, S.A., Nogee, L.M. and Whitsett, J.A.: Aberrant processing of surfactant protein C (SP-C) in hereditary SP-B deficiency. Am. J. Physiol. 268(Lung Cell Mol. Physiol. 12):L647-L656, 1995.
160. Wei, Y., Yarus, S., Greenberg, N.M., Whitsett, J. and Rosen, J.M.: Production of human surfactant protein C in milk of transgenic mice. Transgenic Research 4:232-240, 1995.
161. Zsengeller, Z.K., Wert, S.E., Hull, W.M., Hu, X., Yei, S., Trapnell, B.C. and Whitsett, J.A.: Persistence of replication deficient adenoviral mediated gene transfer in lungs of immune deficient (nu/nu) mice. Hum. Gene Therapy 6:457-467, 1995.
162. Bruno, M.D., Bohinski, R.J., Huelsman, K.M., Whitsett, J.A. and Korfhagen, T.R.: Lung cell specific expression of the murine surfactant protein A gene is mediated by interactions between the SP-A promoter and thyroid transcription factor-1. J. Biol. Chem. 270:6531-6536, 1995.
163. Bachurski, C.J., Pryhuber, G.S., Glasser, S.W., Kelly, S.E. and Whitsett, J.A.: Tumor necrosis factor- α inhibits surfactant protein C gene transcription. J. Biol. Chem. 270:19402-19407, 1995.
164. Ikeda, K., Clark, J.C., Shaw-White, J.R., Stahlman, M.T., Boutell, C. and Whitsett, J.A.: Gene structure and expression of human TTF-1 in respiratory epithelial cells. J. Biol. Chem. 270:8108-8114, 1995.
165. Miyazaki, Y., Araki, K., Vesin, C., Garcia, I., Kapanci, Y., Whitsett, J.A., Piguet, P.-F. and Vassalli, P.: Expression of a tumor necrosis factor- α transgene in murine lung causes lymphocytic and fibrosing alveolitis. A mouse model of progressive pulmonary fibrosis. J. Clin. Invest. 96:250-259, 1995.
166. Vincent, M.C., Trapnell, B.C., Baughman, R.P., Wert, S.E., Whitsett, J.A. and Iwamoto, H.S.: Adenovirus-mediated gene transfer to the respiratory tract of fetal sheep in utero. Human Gene Therapy 6:1019-1028, 1995.
167. Rankin, J.A., Picarella, D.E., Temann, U.-A., Prasad, B., Geba, G., DiCosmo, B., Stripp, B., Whitsett, J., Tarallo, A. and Flavell, R.A.: Phenotypic and physiologic characterization of transgenic mice expressing interleukin 4 in the lung: lymphocytic and eosinophilic inflammation without airway hyperreactivity. Proc. Natl. Acad. Sci. USA 93:7821-7825, 1996.
168. Bejarano, P.A., Baughman, R.P., Biddinger, P.W., Miller, M.A., Fenoglio-Preiser, C., Al-Kafaji, B., DiLauro, R. and Whitsett, J.A.: Surfactant proteins and thyroid transcription factor-1 in pulmonary and breast carcinoma. Mod. Pathol. 9:445-452, 1996.
169. Whitsett, J.A., Nogee, L.M., Weaver, T.E. and Horowitz, A.D.: Human surfactant protein B structure, function, regulation and genetic disease. Physiological Reviews 75:749-757, 1995.
170. Vorbroker, D.K., Voorhout, W.F., Weaver, T.E., and Whitsett, J.A.: Post-translational processing of surfactant protein C in rat Type II cells. Am. J. Physiol. (Lung Cell Mol. Biol.) 269:L727-L733, 1995.
171. Hopfer, U., Jacobberger, J.W., Gruenert, D.C., Eckert, R.L., Jat, P.S. and Whitsett, J.A.: Immortalization of epithelial cells. Am. J. Physiol. (Cell Physiology 39):270:C1-C11, 1996.
172. Wilmott, R.W., Amin, R.S., Perez, C.R., Wert, S.E., Keller, G., Boivin, G.P., Hirsch, R., DeInocencio, J., Lu, P., Reising, S.F., Yei, S., Whitsett, J.A. and Trapnell, B.C.: Safety of adenovirus-mediated transfer of the human cystic fibrosis transmembrane conductance regulator cDNA to the lungs of nonhuman primates. Hum. Gene Ther. 7:301-318, 1996.
173. Holzinger, A., Trapnell, B.C., Weaver, T.E., Whitsett, J.A. and Iwamoto, H.S.: Intraamniotic administration of an adenoviral vector for gene transfer to fetal sheep and mouse tissues. Pediatric Res. 38:844-850, 1995.

174. Ikegami, M., Ueda, T., Hull, W., Whitsett, J.A., Mulligan, R.C., Dranoff, G. and Jobe, A.H.: Surfactant metabolism in transgenic mice after granulocyte macrophage-colony stimulating factor ablation. Am. J. Physiol. (Lung Cell Mol. Physiol.) 270:L650-L658, 1996.
175. Horowitz, A.D., Moussavian, B. and Whitsett, J.A.: Roles of SP-A, SP-B and SP-C in modulation of lipid uptake by pulmonary epithelial cells *in vitro*. Am J. Physiol. (Lung Cell Mol. Physiol.) 270:L69-L79, 1996.
176. Clark, J.C., Wert, S.E., Bachurski, C.J., Stahlman, M.T., Stripp, B.R., Weaver, T.E. and Whitsett, J.A.: Targeted disruption of the surfactant protein B gene disrupts surfactant homeostasis, causing respiratory failure in newborn mice. Proc. Natl. Acad. Sci. USA 92:7794-7798, 1995.
177. Yan, C., Sever, Z. and Whitsett, J.A.: Upstream enhancer activity in the human surfactant protein B gene is mediated by thyroid transcription factor 1. J. Biol. Chem. 270:24852-24857, 1995.
178. Simonet, W.S., DeRose, M.L., Bucay, N., Nguyen, H.Q., Wert, S.E., Zhou, L., Ulich, T.R., Thomason, A., Danilenko, D.M and Whitsett, J.A.: Pulmonary malformation in transgenic mice expressing human keratinocyte growth factor in the lung. Proc. Natl. Acad. Sci. USA 92:12461-12465, 1995.
179. Zhou, L., Dey, C.R., Wert, S.E. and Whitsett, J.A.: Arrested lung morphogenesis in transgenic mice bearing an SP-C-TGF- β 1 chimeric gene. Dev. Biol. 175:227-238, 1996.
180. Edwards, L.A., Read, L.C., Nishio, S.J., Weir, A.J., Hull, W., Barry, S., Styne, D., Whitsett, J.A., Tarantal, A.F., George-Nascimento, C. and Plopper, C.G.: Comparison of the distinct effects of epidermal growth factor and betamethasone on the morphogenesis of the gas exchange region and differentiation of alveolar type II cells in lungs of fetal rhesus monkeys. J. Pharmacol. Exp. Ther. 274:1025-1032, 1995.
181. Huffman, J.A., Hull, W.M., Dranoff, G., Mulligan, R.C. and Whitsett, J.A.: Pulmonary epithelial cell expression of GM-CSF corrects the alveolar proteinosis in GM-CSF-deficient mice. J. Clin. Invest. 97:649-655, 1996.
182. Van Iwaarden, J.F., Teding Van Berkhout, F., Whitsett, J.A., Oosting, R.S. and Van Golde, L.M.G.: A novel procedure for the rapid isolation of surfactant protein A with retention of its alveolar-macrophage-stimulating properties. Biochem J. 309:551-555, 1995.
183. Pryhuber, G.S., Bachurski, C., Hirsch, R., Bacon, A. and Whitsett, J.A.: Tumor necrosis factor- α decreases surfactant protein B mRNA in murine lung. Am. J. Physiol. (Lung Cell Mol. Physiol.) 270:L714-L721, 1996.
184. Jobe, A.H., Ueda, T., Whitsett, J.A., Trapnell, B.C. and Ikegami, M.: Surfactant enhances adenovirus-mediated gene expression in rabbit lungs. Gene Therapy 3:775-779, 1996.
185. Holzinger, A., Dingle, S., Bejarano, P.A., Miller, M.-A., Weaver, T.E., DiLauro, R. and Whitsett, J.A.: Monoclonal antibody to thyroid transcription factor-1: production, characterization and usefulness in tumor diagnosis. Hybridoma 15:49-53, 1996.
186. Stahlman, M.T., Gray, M.E. and Whitsett, J.A.: Expression of thyroid transcription factor-1 (TTF-1) in fetal and neonatal human lung. J. Histochem. Cytochem 44:673-678, 1996.
187. Jobe, A.H., Ikegami, M., Yei, S., Whitsett, J.A. and Trapnell, B.: Surfactant effects on aerosolized and instilled adenoviral mediated gene transfer. Hum. Gene Ther. 7:697-704, 1996.
188. Stripp, B.R., Lund, J., Mango, G.W., Doyen, K.C., Johnston, C., Hultenby, K., Nord, M. and Whitsett, J.A.: Clara cell secretory protein: a determinant of PCB Bio-accumulation within mammals. Am. J. Physiol. (Lung Cell Mol. Physiol.) 271:L656-L664, 1996.

189. Zhang, L., Whitsett, J.A. and Stripp, B.R.: Regulation of Clara cell secretory protein gene transcription by thyroid transcription factor-1. Biochim. Biophys. Acta 1350:359-367, 1997.
190. Subramaniam, S., Whitsett, J.A., Hull, W., and Gairola, C.G.: Alteration of pulmonary surfactant proteins in rats chronically exposed to cigarette smoke. Toxicol. Appl. Pharmacol. 140:274-280, 1996.
191. Hardie, W.D., Kerlakian, C.B., Bruno, M.D., Huelsman, K.M., Wert, S.E., Glasser, S.W., Whitsett, J.A. and Korfhagen, T.R.: Reversal of lung lesions in transgenic transforming growth factor α mice by expression of mutant epidermal growth factor receptor. Am. J. Respir. Cell Mol. Biol. 15:499-508, 1996.
192. Zhou, L., Lim, L., Costa, R.H., and Whitsett, J.A.: Thyroid transcription factor-1, hepatocyte nuclear factor-3 β , surfactant protein B, C, and Clara cell secretory protein in developing mouse lung. J. Histochem. Cytochem 44:1183-1193, 1996.
193. Ikeda, K., Shaw-White, J.R., Wert, S.E., and Whitsett, J.A.: Hepatocyte nuclear factor 3 activates transcription of thyroid transcription factor 1 in respiratory epithelial cells. Mol. Cell. Biol. 16:3626-3636, 1996.
194. Yarus, S., Greenberg, N.M., Wei, Y., Whitsett, J.A., Weaver, T.E. and Rosen, J.M.: Secretion of unprocessed human surfactant protein B in milk of transgenic mice. Transgenic Res. 6:51-57, 1997.
195. Korfhagen, T.R., Bruno, M.D., Ross, G.F., Huelsman, K.M., Ikegami, M., Jobe, A.H., Wert, S.E., Stripp, B.R., Morris, R.E., Glasser, S.W., Bachurski, C.J., Iwamoto, H.S. and Whitsett, J.A.: Altered surfactant function and structure in SP-A gene targeted mice. Proc. Natl. Acad. Sci. USA 93:9594-9599, 1996.
196. Clark, J.C., Weaver, T.E., Iwamoto, H.S., Ikegami, M., Jobe, A.H., Hull, W.M. and Whitsett, J.A.: Decreased lung compliance and air trapping in heterozygous SP-B deficient mice. Am. J. Respir. Cell Mol. Biol. 16:46-52, 1997.
197. Chroneos, Z.C., Abdolrasulnia, R., Whitsett, J.A., Rice, W.R. and Shepherd V.L.: Purification of a cell-surface receptor for surfactant protein A. J. Biol. Chem. 271:16375-16383, 1996.
198. LeVine, A.M., Lotze, A., Stanley, S., Stroud, C., O'Donnell, R., Whitsett, J. and Pollack, M.M.: Surfactant content in children with inflammatory lung disease. Crit. Care Med. 24:1062-1067, 1996.
199. Khor, A., Whitsett, J.A., Stahlman, M.T. and Halter, S.A.: Expression of surfactant protein B precursor and surfactant protein B mRNA in adenocarcinoma of the lung. Mod. Pathol. 10:62-67, 1997.
200. Horowitz, A.D., Moussavian, B., Han, E.D., Baatz, J.E. and Whitsett, J.A.: Distinct effects of SP-A and SP-B on endocytosis of SP-C by pulmonary epithelial cells. Am. J. Physiol. (Lung Cell. Mol. Physiol. 17) 273:L159-L171, 1997.
201. Yan, C. and Whitsett, J.A.: Protein kinase A activation of the surfactant protein B gene is mediated by phosphorylation of thyroid transcription factor 1. J. Biol. Chem. 272:17327-17332, 1997.
202. Zhou, L., Graef, R.W., McCray, P.B., Simonet, W.S. and Whitsett, J.A.: Keratinocyte growth factor stimulates CFTR-independent fluid secretion in the fetal lung *in vitro*. Am. J. Physiol. 271 (Lung Cell. Mol. Physiol. 15):L987-L994, 1996.
203. Zeng, X., Wert, S.E., Federici, R., Peters, K.G. and Whitsett, J.A.: VEGF enhances pulmonary vasculogenesis and disrupts lung morphogenesis *in vivo*. Dev. Dyn. 211:215-227, 1998.
204. Duncan, J.E., Whitsett, J.A. and Horowitz, A.D.: Pulmonary surfactant inhibits cationic liposome-mediated gene delivery to respiratory epithelial cells *in vitro*. Hum. Gene Ther. 8:431-438, 1997.

205. Tokieda, K., Whitsett, J.A., Clark, J.C., Weaver, T.E., Ikeda, K., Jobe, A.H., Ikegami, M. and Iwamoto, H.S.: Pulmonary dysfunction in neonatal SP-B deficient mice. Am. J. Physiol. (Lung Cell. Mol. Physiol.) 273:L875-L882, 1997.
206. Ikegami, M., Korfhagen, T.R., Bruno, M.D., Whitsett, J.A. and Jobe, A.H.: Surfactant metabolism in surfactant protein A-deficient mice. Am. J. Physiol. 272 (Lung Cell. Mol. Physiol. 16):L479-L485, 1997.
207. Malloy, J., McCaig, L., Veldhuizen, R., Yao, L.-J., Joseph, M., Whitsett, J. and Lewis, J.: Alterations of the endogenous surfactant system in septic adult rats. Am. J. Respir. Crit. Care Med. 156:617-623, 1997.
208. LeVine, A.M., Bruno, M.D., Huelsman, K.M., Ross, G.F., Whitsett, J.A. and Korfhagen, T.R.: Surfactant protein-A deficient mice are susceptible to group B streptococcal infection. J. Immunol. 158:4336-4340, 1997.
209. Horowitz, A.D., Kurak, K., Moussavian, B., Whitsett, J.A., Wert, S.E., Hull, W.M., McNanie, J. and Ikegami, M.: Preferential uptake of small-aggregate fraction of pulmonary surfactant *in vitro*. Am. J. Physiol. (Lung Cell. Mol. Physiol.) 273:L468-L477, 1997.
210. Enelow, R.I., Stoler, M.H., Srikiatkachorn, A., Kerlakian, C., Agersborg, S., Whitsett, J.A. and Braciale, T.J.: A lung-specific neo-antigen elicits specific CD8+ T cell tolerance with preserved CD4+ T cell reactivity. J. Clin. Invest. 98:914-922, 1996.
211. Zhang, L., Wikenheiser, K.A. and Whitsett, J.A.: Limitations of retroviral mediated HSV-tk gene transfer to pulmonary adenocarcinoma cells *in vitro* and *in vivo*. Hum. Gene Ther. 8:563-574, 1997.
212. Akinbi, H.T., Breslin, J.S., Ikegami, M., Iwamoto, H.S., Clark, J.C., Whitsett, J.A., Jobe, A.H. and Weaver, T.E.: Rescue of SP-B knockout mice with a truncated SP-B proprotein: function of the C-terminal propeptide. J. Biol. Chem. 272:9640-9647, 1997.
213. Zsengellér, Z.K., Boivin, G.P., Sawchuk, S.S., Trapnell, B.C., Whitsett, J.A. and Hirsch, R.: Anti-T cell receptor antibody prolongs transgene expression and reduces lung inflammation after adenovirus mediated gene transfer. Hum. Gene Ther. 8:935-941, 1997.
214. Klein, J.M., Thompson, M.W., Snyder, J.M., George, T.N., Whitsett, J.A., Bell, E.F., McCray, P.B. and Noguee, L.M.: Transient surfactant protein B deficiency in a term infant with severe respiratory failure. J. Pediatr. 132:244-248, 1998.
215. Zsengellér, Z.K., Wert, S.E., Bachurski, C.J., Kirwin, K.L., Trapnell, B.C. and Whitsett, J.A.: Recombinant adenoviral vector disrupts surfactant homeostasis in mouse lung. Hum. Gene Ther. 8:1331-1344, 1997.
216. Jain-Vora, S., Wert, S.E., Temann, U.-A., Rankin, J.A. and Whitsett, J.A.: Interleukin-4 alters epithelial cell differentiation and surfactant homeostasis in the postnatal mouse lung. Am. J. Respir. Cell Mol. Biol. 17:541-551, 1997.
217. Reed, J.A.H., Rice, W.R., Zsengellér, Z.K., Wert, S.E., Dranoff, G. and Whitsett, J.A.: GM-CSF enhances lung growth and causes alveolar Type II epithelial cell hyperplasia in transgenic mice. Am. J. Physiol. (Lung Cell. Mol. Physiol.) 273:L715-L725, 1997.
218. Ikegami, M., Jobe, A.H., Reed, J.A.H. and Whitsett, J.A.: Surfactant metabolic consequences of overexpression of GM-CSF in Type II cells of GM-CSF deficient mice. Am. J. Physiol. (Lung Cell. Mol. Physiol. 17) 273: L709-L714, 1997.
219. Zhou, L., Dey, C.R., Wert, S.E., Yan, C., Costa, R.H. and Whitsett, J.A.: Hepatocyte nuclear factor-3B limits cellular diversity in the developing respiratory epithelium and alters lung morphogenesis *in vivo*. Dev. Dyn. 210:305-314, 1997.

220. Hardie, W.D., Bruno, M.D., Huelsman, K.M., Iwamoto, H.S., Carrigan, P.E., Leikauf, G.D., Whitsett, J.A. and Korfhagen, T.R.: Postnatal lung function and morphology in transgenic mice expressing transforming growth factor- α . Am. J. Pathol. 151:1075-1083, 1997.
221. Cooke, K.R., Nishinakamura, R., Martin, T.R., Kobzik, L., Brewer, J., Whitsett, J.A., Bungard, D., Murray, R. and Ferrara, J.L.M.: Persistence of pulmonary and abnormal lung function in IL-3/GM-CSF/IL-5 β c receptor deficient mice despite correction of alveolar proteinosis after BMT. Bone Marrow Transplant. 20:657-662, 1997.
222. Harrod, K.S., Hermiston, T.W., Trapnell, B.C., Wold, W.S.M. and Whitsett, J.A.: Lung-specific expression of adenovirus E3-14.7K in transgenic mice attenuates adenoviral vector-mediated lung inflammation and enhances transgene expression. Hum. Gene Ther. 9:1885-1898, 1998.
223. Ghaffari, M., Zeng, X., Whitsett, J.A. and Yan, C.: Nuclear localization domain of thyroid transcription factor-1 in respiratory epithelial cells. Biochem. J. 328:757-761, 1997.
224. Iwamoto, H.S., Trapnell, B.C., McConnell, C.J., Daugherty, C. and Whitsett, J.A.: Pulmonary inflammation associated with repeated, prenatal exposure to an E1, E3-deleted adenoviral vector in sheep. Gene Therapy 6:98-106, 1999.
225. Stahlman, M.T., Gray, M.E. and Whitsett, J.A.: Temporal-spatial distribution of hepatocyte nuclear factor-3 β in developing human lung and other foregut derivatives. J. Histochem. Cytochem 46:955-962, 1998.
226. Ross, G.F., Bruno, M.D., Uyeda, M., Suzuki, K., Nagao, K., Whitsett, J.A. and Korfhagen, T.R.: Enhanced reporter gene expression in cells transfected in the presence of DMI-2, an acid nuclease inhibitor. Gene Therapy 5: 1244-1250, 1998.
227. Yan, C., Ghaffari, M., Whitsett, J.A., Zeng, X., Sever, Z. and Lin, S.: Retinoic acid receptor activation of SP-B gene transcription in respiratory epithelial cells. Am. J. Physiol. 275 (Lung Cell. Mol. Physiol. 19):L239-L246, 1998.
228. Sullivan, L.C., Daniels, C.B., Phillips, I.D., Orgeig, S. and Whitsett, J.A.: Conservation of surfactant protein A: evidence for a single origin for vertebrate pulmonary surfactant. J. Mol. Evol. 46:131-138, 1998.
229. Ikegami, M., Korfhagen, T.R., Whitsett, J.A., Bruno, M.D., Wert, S.E., Wada, K. and Jobe, A.H.: Characteristics of surfactant from SP-A deficient mice. Am. J. Physiol. 275 (Lung Cell. Mol. Physiol. 19): L247-L254, 1998.
230. LeVine, A.M., Kurak, K.E., Wright, J.R., Watford, W.T., Bruno, M.D., Ross, G.F., Whitsett, J.A. and Korfhagen, T.R.: Surfactant protein-A (SP-A) binds group B streptococcus enhancing phagocytosis and clearance from lungs of surfactant protein-A-deficient mice. Am. J. Respir. Cell Mol. Biol. 20:279-286, 1999.
231. Vanderzwan, J., McCaig, L., Mehta, S., Joseph, M., Whitsett, J., McCormack, D.G. and Lewis, J.F.: Characterizing alterations in the pulmonary surfactant system in a rat model of *Pseudomonas aeruginosa* pneumonia. Eur. Respir. J. 12:1388-1396, 1998.
232. Ikegami, M., Horowitz, A.D., Whitsett, J.A. and Jobe, A.H.: Clearance of SP-C and recombinant SP-C *in vivo* and *in vitro*. Am. J. Physiol. (Lung Cell. Mol. Physiol.) 274:L933-L939, 1998.
233. Jain-Vora, S., LeVine, A.M., Chroncos, Z., Ross, G.F., Hull, W.M. and Whitsett, J.A.: Interleukin-4 enhances pulmonary clearance of *Pseudomonas aeruginosa*. Infect. Immun. 66:4229-4236, 1998.
234. LeVine, A.M., Kurak, K.E., Bruno, M.D., Stark, J.M., Whitsett, J.A. and Korfhagen, T.R.: Surfactant protein-A-deficient mice are susceptible to *Pseudomonas aeruginosa* infection. Am. J. Respir. Cell Mol. Biol. 19:700-708, 1998.

235. Tokieda, K., Iwamoto, H.S., Bachurski, C., Wert, S.E., Hull, W.M., Ikeda, K. and Whitsett, J.A.: Surfactant protein-B-deficient mice are susceptible to hyperoxic lung injury. Am. J. Respir. Cell. Mol. Biol. 21:463-472, 1999.
236. Hardie, W.D., Bejarano, P.A., Miller, M.A., Yankaskas, J.R., Ritter, J.H., Whitsett, J.A. and Korfhagen, T.R.: Immunolocalization of transforming growth factor- α and epidermal growth factor receptor in lungs of patients with cystic fibrosis. Pediatr. Dev. Pathol. 2:415-423, 1999.
237. Zeng, X., Yutzey, K.E. and Whitsett, J.A.: Thyroid transcription factor-1, hepatocyte nuclear factor-3 β and surfactant protein A and B in the developing chick lung. J. Anat. 193:399-408, 1998.
238. Harrod, K.S., Mounday, A.D., Stripp, B.R. and Whitsett, J.A.: Clara cell secretory protein decreases lung inflammation after acute virus infection. Am. J. Physiol. (Lung Cell. Mol. Physiol.) 275:L924-L930, 1998.
239. Zsengellér, Z.K., Reed, J.A., Bachurski, C.J., LeVine, A.M., Forry-Schaudies, S., Hirsch, R., Whitsett, J.A.: Adenovirus-mediated granulocyte-macrophage colony-stimulating factor improves lung pathology of pulmonary alveolar proteinosis in granulocyte-macrophage colony-stimulating factor-deficient mice. Hum. Gene Ther. 9:2101-2109, 1998.
240. Sever-Chroneos, Z., Bachurski, C.J., Yan, C. and Whitsett, J.A.: Regulation of mouse SP-B gene promoter by AP-1 family members. Am. J. Physiol. (Lung Cell. Mol. Physiol.) 277:L79-L88, 1999.
241. Ghaffari, M., Whitsett, J.A. and Yan, C.: Inhibition of the hSP-B promoter in respiratory epithelial cells by a dominant negative retinoic acid receptor. Am. J. Physiol. (Lung Cell. Mol. Physiol.) 276:L398-L404, 1999.
242. Reed, J.A., Ikegami, M., Cianciolo, E.R., Wei, L., Cho, P.S., Hull, W., Jobe, A.H. and Whitsett, J.A.: Aerosolized GM-CSF ameliorates pulmonary alveolar proteinosis in GM-CSF-deficient mice. Am. J. Physiol. (Lung Cell Mol Biol.) 276:L556-L563, 1999.
243. Shaw-White, J.R., Bruno, M.D. and Whitsett, J.A.: GATA-6 activates transcription of thyroid transcription factor-1. J. Biol. Chem. 274:2658-2664, 1999.
244. Khor, A., Whitsett, J.A., Stahlman, M.T., Stephenson, M., Olson, S.J. and Cagle, P.T.: Utility of surfactant protein B precursor and thyroid transcription factor 1 in differentiating adenocarcinoma of the lung from malignant mesothelioma. Hum. Pathol. 30:695-700, 1999.
245. Zsengellér, Z.K., Halbert, C., Miller, A.D., Wert, S.E., Whitsett, J.A. and Bachurski, C.J.: Keratinocyte growth factor stimulates transduction of the respiratory epithelium by retroviral vectors. Hum. Gene Ther. 10:341-353, 1999.
246. Korfhagen, T.R., Sheftelyevich, V., Burhans, M.S., Bruno, M.D., Ross, G.F., Wert, S.E., Stahlman, M.T., Jobe, A.H., Ikegami, M., Whitsett, J.A. and Fisher, J.H.: Surfactant protein-D regulates surfactant phospholipid homeostasis *in vivo*. J. Biol. Chem. 273:28438-28443, 1998.
247. Bohinski, R.J., Bejarano, P.A., Balko, G., Warnick, R.E. and Whitsett, J.A.: Determination of lung as the primary site of cerebral metastatic adenocarcinomas using monoclonal antibody to thyroid transcription factor-1. J. Neuro-Oncology 40:227-231, 1998.
248. Tokieda, K., Ikegami, M., Wert, S.E., Baatz, J.E., Zou, Y. and Whitsett, J.A.: Surfactant protein B corrects oxygen-induced pulmonary dysfunction in heterozygous surfactant protein B-deficient mice. Pediatr. Res. 46:708-714, 1999.

249. Morotti, R.A., Cangiarella, J., Gutierrez, M.C., Jagirdar, J., Askin, F., Singh, G., Profitt, S.A., Wert, S.E., Whitsett, J.A. and Greco, M.A.: Congenital cystic adenomatoid malformation of the lung (CCAM): evaluation of the cellular components. Hum. Pathol. 30:618-625, 1999.
250. Tichelaar, J.W., Wert, S.E., Costa, R.H., Kimura, S. and Whitsett, J.A.: HNF-3/forkhead homolog-4 (HFH-4) is expressed in ciliated epithelial cells in the developing mouse lung. J. Histochem. Cytochem 47:823-831, 1999.
251. LeVine, A.M., Reed, J.A., Kurak, K.E., Cianciolo, E. and Whitsett, J.A.: GM-CSF-deficient mice are susceptible to pulmonary group B streptococcal infection. J. Clin. Invest. 103:563-569, 1999.
252. Liu, A.N., Mohammed, A.Z., Rice, W.R., Fiedeldey, D.T., Liebermann, J.S., Whitsett, J.A., Braciale, T.J. and Enclow, R.I.: Perforin-independent CD8+ T-cell-mediated cytotoxicity of alveolar epithelial cells is preferentially mediated by tumor necrosis factor- α : relative insensitivity to fas ligand. Am. J. Respir. Cell Mol. Biol. 20:849-858, 1999.
254. Greene, K.E., Wright, J.R., Steinberg, K.P., Ruzinski, J.T., Caldwell, E., Wong, W.B., Hull, W., Whitsett, J.A., Akino, T., Kuroki, Y., Nagae, H., Hudson, L.D. and Martin, T.R.: Serial changes in surfactant-associated proteins in lung and serum before and after onset of ARDS. Am. J. Respir. Crit. Care Med. 160:1843-1850, 1999.
255. LeVine, A.M., Gwozdz, J., Stark, J., Bruno, M., Whitsett, J. and Korfhagen, T.: Surfactant protein-A enhances respiratory syncytial virus clearance *in vivo*. J. Clin. Invest. 103:1015-1021, 1999.
256. Bruno, M.D., Whitsett, J.A., Ross, G.F. and Korfhagen, T.R.: Transcriptional regulation of the murine surfactant protein-A (SP-A) gene by B-myb. J. Biol. Chem. 274:27523-27528, 1999.
257. Sekhon, H.S., Jia, Y., Raab, R., Kuryatov, A., Pankow, J.F., Whitsett, J.A., Lindstrom, J. and Spindel, E.R.: Prenatal nicotine increases pulmonary $\alpha 7$ nicotinic receptor expression and alters fetal lung development in monkeys. J. Clin. Invest. 103:637-647, 1999.
258. Harrod, K.S., Trapnell, B.C., Otake, K., Korfhagen, T.R. and Whitsett, J.A.: SP-A enhances viral clearance and inhibits inflammation after pulmonary adenoviral infection. Am. J. Physiol. (Lung Cell Mol. Physiol.) 277:L580-L588, 1999.
259. Tichelaar, J.W., Lim, L., Costa, R.H. and Whitsett, J.A.: HNF-3/forkhead homologue-4 influences lung morphogenesis and respiratory epithelial cell differentiation *in vivo*. Dev. Biol. 213:405-417, 1999.
260. Lin, S., Na, C-L., Akinbi, H.T., Apsley, K.S., Whitsett, J.A. and Weaver, T.E.: Surfactant protein B (SP-B) -/- mice are rescued by restoration of SP-B expression in alveolar Type II cells but not Clara cells. J. Biol. Chem. 274:19168-19174, 1999.
262. Zeng, X., Gray, M., Stahlman, M.T. and Whitsett, J.A.: TGF- $\beta 1$ perturbs vascular development and inhibits epithelial differentiation in fetal lung *in vivo*. Dev. Dyn. 221:289-301, 2001.
264. Ikegami, M., Harrod, K.S., Whitsett, J.A. and Jobe, A.H.: CCSP deficiency does not alter surfactant homeostasis during adenoviral infection. Am. J. Physiol. 277:L983-L987, 1999.
265. Fisher, J.H., Sheftelyevich, V., Ho, Y-S., Fligel, S., McCormack, F.X., Korfhagen, T.R., Whitsett, J.A. and Ikegami, M.: Pulmonary-specific expression of SP-D corrects pulmonary lipid accumulation in SP-D gene-targeted mice. Am. J. Physiol. 278:L365-L373, 2000.
266. Ikegami, M., Whitsett, J.A., Chronos, Z.C., Ross, G.F., Reed, J.A., Bachurski, C.J. and Jobe, A.H.: IL-4 increases surfactant and regulates metabolism *in vivo*. Am. J. Physiol. 278:L75-L80, 2000.

267. Wert, S.E., Yoshida, M., LeVine, A.M., Ikegami, M., Jones, T., Ross, G.F., Fisher, J.H., Korfhagen, T.R. and Whitsett, J.A.: Increased metalloproteinase activity, oxidant production, and emphysema in surfactant protein D gene-inactivated mice. Proc. Natl. Acad. Sci. USA 97:5972-5977, 2000.
268. Tredano, M., van Elburg, R.M., Kaspers, A.G., Zimmermann, L.J., Houdayer, C., Aymard, P., Hull, W.M., Whitsett, J.A., Elion, J., Griese, M. and Bahuau, M.: Compound SFTPB 1549C-->GAA (121ins2) and 457delC heterozygosity in severe congenital lung disease and surfactant protein B (SP-B) deficiency. Hum. Mutat. 14:502-509, 1999.
269. Byrd-Gloster, A.L., Khor, A., Glass, L.F., Messina, J.L., Whitsett, J.A., Livingston, S.K., Cagle, P.T.: Differential expression of thyroid transcription factor 1 in small cell lung carcinoma and merkel cell tumor. Hum. Pathol. 31:58-62, 2000.
270. Naltner, A., Ghaffari, M., Whitsett, J.A. and Yan, C.: Retinoic acid stimulation of the human surfactant protein B promoter is thyroid transcription factor 1 site-dependent. J. Biol. Chem. 275:56-62, 2000.
271. Nogee, L.M., Wert, S.E., Profitt, S.A., Hull, W.M. and Whitsett, J.A.: Allelic heterogeneity in hereditary surfactant protein B (SP-B) deficiency. Am. J. Respir. Crit. Care Med. 161:973-981, 2000.
272. Borron, P., McIntosh, J.C., Korfhagen, T.R., Whitsett, J.A., Taylor, J. and Wright, J.R.: Surfactant-associated protein A inhibits LPS-induced cytokine and nitric oxide production *in vivo*. Am. J. Physiol. 278:L840-L847, 2000.
273. Harrod, K.S., Mounday, A.D. and Whitsett, J.A.: Adenoviral E3-14.7K protein in LPS-induced lung inflammation. Am. J. Physiol. 278:L631-L639, 2000.
274. Bruno, M.D., Korfhagen, T.R., Liu, C., Morrissey, E.E. and Whitsett, J.A.: GATA-6 activates transcription of surfactant protein A. J. Biol. Chem. 275:1043-1049, 2000.
275. Beck, D.C., Ikegami, M., Na, C-L., Zaltash, S., Johansson, J., Whitsett, J.A. and Weaver, T.E.: The role of homodimers in surfactant protein B function *in vivo*. J. Biol. Chem. 275:3365-3370, 2000.
276. Beck, D.C., Na, C-L., Whitsett, J.A. and Weaver, T.E.: Ablation of a critical surfactant protein B intramolecular disulfide bond in transgenic mice. J. Biol. Chem. 275:3371-3376, 2000.
277. Hayashida, S., Harrod, K.S. and Whitsett, J.A.: Regulation and function of CCSP during pulmonary *Pseudomonas aeruginosa* infection *in vivo*. Am. J. Physiol. 279:L452-L459, 2000.
278. Reed, J.A., Ikegami, M., Robb, L., Begley, C.G., Ross, G. and Whitsett, J.A.: Distinct changes in pulmonary surfactant homeostasis in common β -chain- and GM-CSF-deficient mice. Am. J. Physiol. 278:L1164-L1171, 2000.
279. Yoshida, M., Ikegami, M., Reed, J.A., Chroncos, Z.C. and Whitsett, J.A.: GM-CSF regulates protein and lipid catabolism by alveolar macrophages. Am. J. Physiol. 280:L379-L386, 2001.
280. Paine, R., Preston, A.M., Wilcoxon, S., Jin, H., Siu, B.B., Morris, S.B., Reed, J.A., Ross, G., Whitsett, J.A. and Beck, J.M.: Granulocyte-macrophage colony-stimulating factor in the innate immune response to pneumocystis carinii pneumonia in mice. J. Immunol. 164:2602-2609, 2000.
281. Morotti, R.A., Gutierrez, M.C., Askin, F., Profitt, S.A., Wert, S.E., Whitsett, J.A. and Greco, M.A.: Expression of thyroid transcription factor-1 in congenital cystic adenomatoid malformation of the lung. Pediatr. Dev. Pathol. 3:455-461, 2000.
282. Stahlman, M.T., Gray, M.P., Falconieri, M.W., Whitsett, J.A. and Weaver, T.E.: Lamellar body formation in normal and surfactant protein B-deficient fetal mice. Lab. Invest. 80:395-403, 2000.

283. Chroneos, Z.C., Wert, S.E., Livingston, J.L., Hassett, D.J. and Whitsett, J.A.: Role of cystic fibrosis transmembrane conductance regulator in pulmonary clearance of *Pseudomonas aeruginosa* in vivo. J. Immunol. 165:3941-3950, 2000.
284. Baughman, R.P., Henderson, R.F., Whitsett, J., Gunther, K.L., Keeton, D.A., Waide, J.J., Zaccardelli, D.S., Pattishall, E.N. and Rashkin, M.C.: Surfactant replacement for ventilator-associated pneumonia: A preliminary report. Respiration 69:57-62, 2002.
285. Tichelaar, J.W., Lu, W. and Whitsett, J.A.: Conditional expression of fibroblast growth factor-7 in the developing and mature lung. J. Biol. Chem. 275:11858-11864, 2000.
286. Ikegami, M., Whitsett, J.A., Jobe, A., Ross, G., Fisher, J. and Korfhagen, T.: Surfactant metabolism in SP-D gene-targeted mice. Am. J. Physiol. 279:L468-L476, 2000.
287. LeVine, A.M., Whitsett, J.A., Gwozdz, J.A., Richardson, T.R., Fisher, J.H., Burhans, M.S. and Korfhagen, T.R.: Distinct effects of surfactant protein A or D deficiency during bacterial infection on the lung. J. Immunol. 165:3934-3940, 2000.
288. Ikegami, M., Jobe, A.H., Whitsett, J., Korfhagen, T.: Tolerance of SP-A deficient mice to hyperoxia or exercise. J. Appl. Physiol. 89:644-648, 2000.
289. Nogee, L.M., Dunbar, A.E., Wert, S.E., Askin, F., Hamvas, A. and Whitsett, J.A.: A mutation in the surfactant protein C gene associated with familial interstitial lung disease. N. Engl. J. Med. 344:573-579, 2001.
290. Amin, R.S., Wert, S.E., Baughman, R.P., Tomashefski, J.F., Nogee, L.M., Brody, A.S., Hull, W.M. and Whitsett, J.A.: Surfactant protein deficiency in familial interstitial lung disease. J. Pediatr. 139:85-92, 2001.
291. Clark, J.C., Tichelaar, J.W., Wert, S.E., Itoh, N., Perl, A.-K.T., Stahlman, M.T. and Whitsett, J.A.: FGF-10 disrupts lung morphogenesis and causes pulmonary adenomas *in vivo*. Am. J. Physiol. 280:L705-L715, 2001.
292. Collins, R.A., Ikegami, M., Korfhagen, T.R., Whitsett, J.A. and Sly, P.D.: Changes in lung function with age in mice deficient in surfactant protein D. Submitted for publication.
293. Zsengeller, Z.K., Ross, G.F., Trapnell, B.C., Szabo, C. and Whitsett, J.A.: Adenovirus infection increases iNOS and peroxynitrite production in the lung. Am. J. Physiol. 280:L503-L511, 2001.
294. Naltner, A., Wert, S., Whitsett, J.A., and Yan, C.: Temporal/spatial expression of nuclear receptor coactivators in the mouse lung. Am. J. Physiol. 279:L1066-L1074, 2000.
295. Linke, M.J., Harris, C.E., Korfhagen, T.R., McCormack, F.X., Ashbaugh, A.D., Steele, P., Whitsett, J.A. and Walzer, P.D.: Immunosuppressed surfactant protein-A deficient mice have increased susceptibility to *Pneumocystis carinii* infection. J. Infect. Dis. 183:943-952, 2001.
296. Dunbar, A.E., Wert, S.E., Ikegami, M., Whitsett, J.A., Hamvas, A., White, F.V., Piedbocuf, B., Jobin, C., Guttentag, S. and Nogee, L.M.: Prolonged survival in hereditary surfactant protein B (SP-B) deficiency associated with a novel splicing mutation. Pediatr. Res. 48:275-282, 2000.
297. LeVine, A.M., Whitsett, J.A., Hartshorn, K.L., Crouch, E.C. and Korfhagen, T.R.: Surfactant protein-D enhances clearance of influenza A virus from the lung *in vivo*. J. Immunol. 167:5868-5873, 2001.
298. Zsengeller, Z., Otake, K., Shibata, Y., Chroneos, Z., Whitsett, J.A. and Trapnell, B.C.: Granulocyte-macrophage colony stimulating factor regulates alveolar macrophage adenovirus internalization and clearance during acute lung infection. Submitted for publication.

299. Johnston, S.D., Daniels, C.B., Cenzato, D., Whitsett, J.A. and Orgeig, S.: The pulmonary surfactant system matures upon pipping in the freshwater turtle, *Chelydra serpentina*. J. Exp. Biol. 205:415-425, 2002.
300. Glasser, S.W., Burhans, M.S., Korfhagen, T.R., Na, C.-L., Sly, P.D., Ross, G.F., Ikegami, M. and Whitsett, J.A.: Altered stability of pulmonary surfactant in SP-C-deficient mice. Proc. Natl. Acad. Sci. USA 98:6366-6371, 2001.
301. Zhang, L., Ikegami, M., Crouch, E.C., Korfhagen, T.R. and Whitsett, J.A.: Activity of pulmonary surfactant protein D (SP-D) *in vivo* is dependent on oligomeric structure. J. Biol. Chem. 276:19214-19219, 2001.
302. Epperly, M.W., Travis, E.L., Whitsett, J.A., Raineri, I., Epstein, C.J. and Greenberger, J.S.: Overexpression of manganese superoxide dismutase (MnSOD) in whole lung or alveolar Type II cells of MnSOD transgenic mice does not provide intrinsic lung irradiation protection. Int. J. Cancer (Radiat. Oncol. Invest):96:11-21, 2001.
303. Yoshida, M., Korfhagen, T.R. and Whitsett, J.A.: Surfactant protein D regulates NF- κ B and matrix metalloproteinase production in alveolar macrophages via oxidant-sensitive pathways. J. Immunol. 166:7514-7519, 2001.
304. Perl, A.-K.T., Tichelaar, J.W. and Whitsett, J.A.: Conditional gene expression in the respiratory epithelium of the mouse. Transgenic Res. 11:21-29, 2002.
305. Geary, C. and Whitsett J.: Inhaled nitric oxide for oligohydramnios-induced pulmonary hypoplasia: A report of two cases and review of the literature. J. Perinatol. 22:82-85, 2002.
306. Kalinichenko, V.V., Lim, L., Stolz, D.B., Shin, B., Rausa, F.M., Clark, J., Whitsett, J.A., Watkins, S.C. and Costa, R.H.: Defects in pulmonary vasculature and perinatal lung hemorrhage in mice heterozygous null for the *forkhead box f1* transcription factor. Dev. Biol. 235:489-507, 2001.
307. Miller, L.-A.D., Wert, S.E. and Whitsett, J.A.: Immunolocalization of sonic hedgehog (Shh) in developing mouse lung. J. Histochem. Cytochem. 49:1593-1603, 2001.
308. Shibata, Y., Berclaz, P.-Y., Chroneos, Z.C., Yoshida, M., Whitsett, J.A. and Trapnell, B.C.: GM-CSF regulates alveolar macrophage differentiation and innate immunity in the lung through PU.1. Immunity 15:557-567, 2001.
309. Ikegami, M., Hull, W.M., Yoshida, M., Wert, S.E. and Whitsett, J.A.: SP-D and GM-CSF regulate surfactant homeostasis via distinct mechanisms. Am. J. Physiol. 281:L697-L703, 2001.
310. Gilbert, W.M., Eby-Wilkens, E., Plopper, C., Whitsett, J.A. and Tarantal, A.F.: Fetal monkey surfactants after intra-amniotic or maternal administration of betamethasone and thyroid hormone. Obstet. Gynecol. 98:466-470, 2001.
311. Hayashida, S., Harrod, K.S. and Whitsett, J.A.: Recombinant CCSP inhibits lung inflammation induced by LPS. Submitted for publication.
312. Ikegami, M., Weaver, T.E., Conkright, J.J., Sly, P.D., Ross, G.F., Whitsett, J.A. and Glasser, S.W.: Deficiency of SP-B reveals protective role of SP-C during oxygen injury. J. Appl. Physiol. 92:519-526, 2002.
313. Palaniyar, N., Ikegami, M., Korfhagen, T., Whitsett, J. and McCormack, F.X.: Domains of surfactant protein A that affect protein oligomerization, lipid structure and surface tension. Comparative Biochemistry and Physiology Part A 129:109-127, 2001.

314. Krane, C.M., Fortner, C.N., Hand, A.R., McGraw, D.W., Lorenz, J.N., Wert, S.E., Towne, J.E., Paul, R.J., Whitsett, J.A. and Menon, A.G.: Aquaporin 5-deficient mouse lungs are hyperresponsive to cholinergic stimulation. Proc. Natl. Acad. Sci. USA 98:14114-14119, 2001.
315. Lim, L., Kalinichenko, V.V., Whitsett, J.A. and Costa, R.H.: Fusion of lung lobes and vessels in mouse embryos heterozygous for the *forkhead box f1* targeted allele. Am. J. Physiol., in press.
316. Wert, S.E., Dey, C.R., Blair, P.A., Kimura, S. and Whitsett, J.A.: Increased expression of thyroid transcription factor-1 (TTF-1) in respiratory epithelial cells inhibits alveolarization and causes pulmonary inflammation. Dev. Biol. 242:75-87, 2002.
317. Baughman, R.P., Romberger, D., Whitsett, J.A., Kleykamp, B. and Kurdowska, A.: Increased granulocyte macrophage-colony stimulating factor concentration in bronchoalveolar lavage fluid from patients with pulmonary alveolar proteinosis. J. Bronchol., in press.
318. Malloy, J.L., Veldhuizen, R.A.W, McCormack, F.X., Korfhagen, T.R., Whitsett, J.A. and Lewis, J.F.: Pulmonary surfactant and inflammation in septic adult mice: role of surfactant protein A. J. Appl. Physiol. 92:809-816, 2002.
319. Zhou, H., Morotti, R.A., Profitt, S.A., Langston, C., Wert, S.E., Whitsett, J.A. and Greco, M.A.: Expression of thyroid transcription factor-1, surfactant proteins, type I cell-associated antigen, and Clara cell secretory protein in pulmonary hypoplasia. Pediatr. Dev. Pathol. 4:364-371, 2001.
320. LeVine, A.M., Hartshorn, K., Elliott, J., Whitsett, J. and Korfhagen, T.: Absence of SP-A modulates innate and adaptive defense responses to pulmonary influenza infection. Am. J. Physiol. 282:L563-L572, 2002.
321. Ikegami, M., Elhalwagi, B.M., Palaniyar, N., Dienger, K., Korfhagen, T., Whitsett, J.A. and McCormack, F.X.: The collagen-like region of surfactant protein A (SP-A) is required for correction of surfactant structural and functional defects in the SP-A null mouse. J. Biol. Chem. 276:38542-38548, 2001.
322. Liu, C., Glasser, S.W., Wan, H. and Whitsett, J.A.: GATA-6 and thyroid transcription factor-1 directly interact and regulate surfactant protein-C gene expression. J. Biol. Chem. 277:4519-4525, 2002.
323. Kalinichenko, V.V., Zhou, Y., Shin, B., Stolz, D.B., Watkins, S.C., Whitsett, J.A. and Costa, R.H.: Wild type levels of the mouse *forkhead box f1* gene are essential for lung repair. Am J. Physiol., in press.
324. Palaniyar, N., Zhang, L., Kuzmenko, A., Ikegami, M., Wan, S., Wu, H., Korfhagen, T.R., Whitsett, J.A. and McCormack, F.X.: The role of pulmonary collectin N-terminal domains in surfactant structure, function and homeostasis, *in vivo*. Submitted for publication.
325. Fisher, G.H., Wellen, S.L., Klimstra, D., Lenczowski, J.M., Tichelaar, J.W., Lizak, M., Whitsett, J.A., Koretsky, A. and Varmus, H.E.: Induction and apoptotic regression of lung adenocarcinomas by regulation of a *K-Ras* transgene in the presence and absence of tumor suppressor genes. Genes & Dev. 15:3249-3262, 2001.
326. Liu, C., Morrissey, E.E. and Whitsett, J.A.: GATA-6 is required for maturation of the lung in late gestation. Submitted for publication.
327. Yang, H., Lu, M.M., Zhang, L., Whitsett, J.A. and Morrissey, E.E.: GATA6 regulates differentiation of distal lung epithelium. Submitted for publication.
328. Whitsett, J.A., Clark, J.C., Picard, L., Tichelaar, J.W., Wert, S.E., Itoh, N., Perl, A-K.T. and Stahlman, M.T.: FGF-18 influences proximal programing during lung morphogenesis. Submitted for publication.
329. Stahlman, M.T., Gray, M.E., Hull, W.M. and Whitsett, J.A.: Immunolocalization of surfactant protein-D (SP-D) in human fetal, newborn and adult tissues. J. Immunol., in press.

330. Perl, A.K.T., Wert, S.E., Nagy, A., Lobe, C.G. and Whitsett, J.A.: Early restriction of proximal and peripheral cell lineages during formation of the lung. Submitted for publication.
331. Whitsett, J.A.: Intrinsic and innate defenses of the lung: intersection of pathways regulating lung morphogenesis, host defense, and repair. J. Clin. Invest. 109:565-569, 2002.
332. Zhang, L., Hartshorn, K.L., Crouch, E.C., Ikegami, M. and Whitsett, J.A.: Complementation of pulmonary abnormalities in SP-D (-/-) mice with a SP-D/conglutinin fusion protein. Submitted for publication.
333. Du, M., Jones, J.R., Lanier, J., Keeling, K.M., Lindsey, J.R., Tusson, A., Bébok, Z., Whitsett, J.A., Dey, C.R., Colledge, W.H., Evans, M.J., Sorscher, E.J. and Bedwell, D.M.: Aminoglycoside suppression of a premature stop mutation in a *Cfrt*^{-/-} mouse carrying a human CFTR-G542X transgene. Submitted for publication.

CHAPTERS, SYMPOSIA

1. Whitsett, J.A., Kleinman, L.I. and Tsang, R.C.: Characteristics of human placenta Ca and Mg-ATPase. in: Vitamin D Biochemistry. Chemical and Clinical Aspects Related to Calcium Metabolism. Norman, A.W., Schaefer, K., Corburn, J.W., DeLuca, H.F., Fraser, D., Arigdeit, H.G. and Herroth, D.V. (eds.). Berlin, New York, pgs. 341-344, 1977.
2. Tsang, R.C., Chang, G., Chen, I-W., Steichen, J., Whitsett, J.A. and Donovan, E.: Neonatal parathyroid and vitamin D homeostasis in: Pediatric Disease Related to Calcium. Elsevier, North Holland, NY, 1978.
3. Whitsett, J.A. and Brownscheidel, C.: Aspects of placental structure and function in maternal diabetes. Diabetes in Pregnancy: A Perspective. Mercatz, I. and Adams, P. (eds.), 1979.
4. Whitsett, J.A.: Hyaline membrane disease in the infant of the diabetic mother. Clinical Aspects of Perinatal Care.
5. Whitsett, J.A., Ross, G.F., Weaver, T.E., Ohning, B. and Nogee, L.: Surfactant-associated proteins and hyaline membrane disease. In: Clinical Aspects of Perinatal Medicine, M. Rathi (ed.), Vol. II, pgs. 115-124, MacMillan Publishing Co., New York, 1986.
6. Weaver, T.E. and Whitsett, J.A.: Structure and function of pulmonary surfactant proteins. Seminars in Perinatology 12:213-220, 1988.
7. Whitsett, J.A.: Molecular approaches to study of surfactant protein structure and function. Mead Johnson Symposium on Perinatal and Developmental Medicine (Fundamental Mechanisms in Development) 29:35-37, 1987.
8. Whitsett, J.A. and Weaver, T.E.: Surfactant proteolipids SP-B and SP-C. In: Surfactant and the Respiratory Tract, Elsevier Science Publishers (Biochemical Division), L. Ekelund, B. Jonson and L. Malm (eds.), pgs. 67-74, 1989.
9. Whitsett, J.A. and Weaver, T.E.: Pulmonary surfactant proteins: implications for surfactant replacement therapy. In: Surfactant Replacement Therapy, D.L. Shapiro and R.H. Notter (eds.), pgs. 71-89. Alan R. Liss, Inc., 1989.
10. Whitsett, J.A., Weaver, T.E., Glasser, S.W., Korfhagen, T.R.: Regulation of surfactant protein expression. In: Progress in Respiration Research (Basic Research on Lung Surfactant). P. Von Wichert and B. Muller (eds.), 25:1-7, 1990.
11. Whitsett, J.A.: Regulation of surfactant protein synthesis. In: Respiratory Distress Syndromes: Molecules to Man. K.L. Brigham and M.T. Stahlman (eds.), Vanderbilt University Press, Nashville, Tennessee, in press, 1990.
12. Whitsett, J.A.: Composition of pulmonary surfactant lipids and proteins. In: Fetal and Neonatal Physiology. Volume 2. R.A. Polin and W.W. Fox (eds.). W.B. Saunders Co., Harcourt Brace Jovanovich, Inc. Chapter 89, pgs. 941-949, 1991.
13. Whitsett, J.A.: Pulmonary surfactant and respiratory distress syndrome in the premature infant. In: The Lung: Scientific Foundations, R.G. Crystal and J.B. West (eds.). Raven Press, New York, NY, Chapter 6.1.7:1723-1733, 1991.
14. Whitsett, J.A. and Weaver, T.E.: Structure, function and regulation of pulmonary surfactant proteins. In: Pulmonary Surfactant: Biochemical, Functional, Regulatory, and Clinical Concepts. J.R. Bourbon (ed.). CRC Press, Inc., Boca Raton, Ann Arbor, Boston, Chapter 4:77-104, 1991.

15. Whitsett, J.A.: Molecular aspects of the pulmonary surfactant system in the newborn. In: Basic Mechanisms of Pediatric Respiratory Disease: Cellular and Integrative. V.C. Chernick and R.B. Mellins (eds.), B.C. Decker, Inc., Philadelphia, PA. Chapter 22, pgs. 303-314, 1991.
16. Whitsett, J.A. and Baatz, J.E.: Hydrophobic surfactant proteins SP-B and SP-C: molecular biology, structure and function. In: Pulmonary Surfactant: From Molecular Biology to Clinical Practice. B. Robertson, L.M.G. van Golde and J.J. Batenburg (eds.). Elsevier, North Holland, NY, Chapter 4:55-75, 1992.
17. Whitsett, J.A.: Gene structure of the pulmonary surfactant proteins SP-A, SP-B and SP-C. In: The Surfactant System of the Lung (Prevention and Treatment of Neonatal and Adult Respiratory Distress Syndrome). E.V. Cosmi, G.C. DeRenzo and M.M. Anceschi (eds.). Macmillan Academic and Professional, Ltd., Printed in Great Britain at University Press, Cambridge. Pgs. 1-6, 1991.
18. Whitsett, J.A.: Training for an academic career in neonatal medicine. In: Clinics in Perinatology 20:1-8, 1993.
19. Whitsett, J.A., Pryhuber, G.S., Rice, W.R., Warner, B.B. and Wert, S.E.: Acute Respiratory Disorders. In: Neonatology: Pathophysiology and Management of the Newborn, Fourth Edition, G.B. Avery, M.A. Fletcher and M.G. MacDonald (eds.), J.B. Lippincott Co., Philadelphia, PA, Chapter 29:429-452, 1994.
20. Weaver, T.E. and Whitsett, J.A.: Antigenicity of surfactant proteins A, B and C. In: Surfactant Therapy for Lung Disease, B. Robertson and H.W. Tausch (eds.), (for the series: Lung Biology in Health and Diseases edited by C. Lenfant), Marcel Dekker, Inc., New York, NY., Chapter 14:293-306, 1995.
21. Grabowski, G.A. and Whitsett, J.A.: Gene Therapy: An Introduction for Pediatricians. In: Nelson Textbook of Pediatrics, Fifteenth Edition, R.E. Behrman, R. Kliegman and A.M. Arvin (eds.), W.B. Saunders Co., Orlando, FL.
22. Whitsett, J.A.: Composition and structure of pulmonary surfactant. In: New Therapies for Neonatal Respiratory Failure - A Physiological Approach, B.R. Boynton, W.A. Carlo and A.H. Jobe, (eds.), Cambridge University Press, New York, NY. Chapter 1:3-15, 1994.
23. Whitsett, J.A., Korfhausen, T.R.: Towards Gene Therapy for Cystic Fibrosis. In: New Insights into Cystic Fibrosis Vol. 3, No. 1, pp. 1-5, 1995.
24. Glasser, S.W., Korfhausen, T.R. and Whitsett, J.A.: Transgenic mice for the study of lung disease. In: The Genetics of Asthma, S.B. Liggett and D.A. Meyers (eds.), (for the series: Lung Biology in Health and Diseases edited by C. Lenfant), Marcel Dekker, Inc., New York, NY., Chapter 11:235-258, 1996.
25. Whitsett, J.A. and Gerard, C.: Transgenic mice for study of pulmonary disease. In: The Lung: Scientific Foundations, 2nd Edition, R.G. Crystal, J.B. West, E.R. Weibel and P.J. Barnes (eds.). Raven Press, New York, NY. Chapter 26, 1996.
26. Whitsett, J.A.: Structure, Function and Regulation of Surfactant Protein B. Journal of Japanese Medical Society for Biological Interface 26(Supplement):9-14, 1996.
27. Weaver, T.E., Clark, J.C. and Whitsett, J.A.: Generation and characterization of a mouse model of SP-B deficiency. Proceedings of the International Symposium on Perinatal Medicine and Human Reproduction "The Place for New Technologies." -Rome, June 26-29, 1995.
28. McCormack, F.X. and Whitsett, J.A.: Surfactant Protein A. In: Collectins, A. Ezekowitz and K. Sastry (eds.). R.G. Landes Company, Biomedical Publishers, Austin, TX, Chapter 2:9-50, 1996.
29. Whitsett, J.A. and Sever, Z.: Respiratory epithelial cell gene transcription. In: Lung Growth and Development, J.A. McDonald (ed.). Marcel Dekker, Inc., New York, NY.

30. Whitsett, J.A.: Composition of pulmonary surfactant lipids and proteins. In: Fetal and Neonatal Physiology, Edition 2. R.A. Polin and W.W. Fox (eds.). W.B. Saunders Co., Philadelphia, PA.
31. Whitsett, J.A.: Pulmonary surfactant and respiratory distress syndrome in the newborn infant. In: The Lung: Scientific Foundations, 2nd Edition, R.G. Crystal, J.B. West, E.R. Weibel and P.J. Barnes (eds.). Raven Press, New York, NY, Chapter 165:2167-2177, 1996.
32. Whitsett, J.A. and Korfhagen, T.R.: Regulation of gene transcription in respiratory epithelial cells. Am. J. Respir. Cell Mol. Biol. 14:118-120, 1996.
33. Whitsett, J.A. and Korfhagen, T.R.: Genetic models for the study of autocrine/paracrine signalling in lung development and repair. In: Chronic Lung Disease of Early Infancy, R.D. Bland and J. Coalson (eds.), (for the series: Lung Biology in Health and Diseases edited by C. Lenfant), Marcel Dekker, Inc., New York, NY., Chapter 37, pp 911-926, 1999.
34. Whitsett, J.A. and Weaver, T.E.: Surfactant deficiency. In: Principles of Molecular Medicine, J.L. Jameson (ed.). Humana Press Inc., Totowa, NJ, Chapter 39:349-355, 1998.
35. Whitsett, J.A. and Horowitz, A.D.: Surfactant and surfactant proteins. In: Fishman's Pulmonary Diseases and Disorders, 3rd Edition, Vol 1, Chapter 7, A.P. Fishman (ed.). McGraw-Hill, New York, NY, pp 119-127, 1998.
36. Evans, D.A., Wilmott, R.W. and Whitsett, J.A.: Surfactant replacement therapy for adult respiratory distress syndrome in children. Pediatric Pulmonology 21:328-336, 1996.
37. Whitsett, J.A. and Glasser, S.W.: Targeting gene expression to the lung. In: Gene Therapy for Diseases of the Lung, K.L. Brigham (ed.), (for the series: Lung Biology in Health and Disease edited by C. Lenfant), Marcel Dekker, Inc., New York, NY. Vol. 104, Chapter 10, 1997, pp. 193-208.
38. Korfhagen, T.R. and Whitsett, J.A.: Transcriptional control in the developing lung. (The Parker B. Francis Lectureship) Chest 111:83S-88S, 1997.
39. Whitsett, J.A. and Zhou, L.: Use of transgenic mice to study autocrine-paracrine signalling in lung morphogenesis and differentiation. In: Clinics in Perinatology 23(4):753-769, 1996.
40. Whitsett, J.A. and Wert, S.E.: Molecular determinants of lung development. In: Kendig's Disorders of the Respiratory Tract in Children. Chernick, V. and Boat, T.F. (eds); W.B. Saunders, Philadelphia; p. 3-19, 1998.
41. Korfhagen, T.R. and Whitsett, J.A.: Transgenic models of lung development and disease. In: Lung Development, C. Gaultier, J. Bourbon, M. Post (eds.), Oxford University Press, New York, NY, pp 327-346, 1999.
42. Whitsett, J.A. and Stahlman, M.T.: Impact of advances in physiology, biochemistry, and molecular biology on pulmonary disease in neonates. Am. J. Respir. Crit. Care Med. 157:567-571, 1998.
43. Whitsett, J.A., Pryhuber, G.S., Rice, W.R., Warner, B.B. and Wert, S.E.: Acute Respiratory Disorders. In: Neonatology: Pathophysiology and Management of the Newborn, Fifth Edition, G.B. Avery, M.A. Fletcher and M.G. MacDonald (eds.), J.B. Lippincott Co., Philadelphia, PA, Chapter 28, pp 485-508, 1999.
44. Reed, J.A. and Whitsett, J.A.: Granulocyte-macrophage colony-stimulating factor and pulmonary surfactant homeostasis. Proceedings of the Association of American Physicians 110:321-332, 1998.
45. Korfhagen, T.R., LeVine, A.M. and Whitsett, J.A.: Surfactant protein A (SP-A) gene targeted mice. Biochim. Biophys. Acta 1408:296-302, 1998.

46. Whitsett, J.A. and Glasser, S.W.: Regulation of surfactant protein gene transcription. Biochim. Biophys. Acta 1408:303-311, 1998.
47. Grabowski, G.A. and Whitsett, J.A.: Gene Therapy: An Introduction for Pediatricians. In: Nelson Textbook of Pediatrics, Sixteenth Edition, R.E. Behrman, R. Kliegman and H.B. Jenson (eds.), W.B. Saunders Co., Philadelphia, PA.
48. Whitsett, J.: A lungful of transcription factors. Nature Genetics 20:7-8, 1998. Invited "News & Reviews" article.
49. Whitsett, J.A.: Transgenic models for testing proof of concept for gene therapy of pulmonary diseases. Acta Neonatologica Japonica 33:457-461, 1997.
50. Whitsett, J.A. and Korfhagen, T.R.: Transgenic mouse models for the study of growth factor signaling during lung morphogenesis. In: Endocrinology of the Lung: Development and Surfactant Synthesis. C.R. Mendelson (ed.) Contemporary Endocrinology series. Humana Press Inc., Totowa, NJ. Chapter 14, 2000.
51. Whitsett, J.A. and Nogee, L.M.: Hereditary surfactant protein B deficiency. In: The Metabolic and Molecular Bases of Inherited Disease, 8th Edition, C.R. Scriver, A.L. Beaudet, W.S. Sly, D. Valle, Barton Childs, B. Vogelstein (eds.), McGraw-Hill, New York, NY. p 5563-5558, 2001.
52. Perl, A-K.T. and Whitsett, J.A.: Molecular mechanisms controlling lung morphogenesis. Clin. Genet. 56:14-27, 1999.
53. Whitsett, J.A. and Tichelaar, J.W.: Forkhead transcription factor HFH-4 and respiratory epithelial cell differentiation. A Perspective. Am. J. Respir. Cell Mol. Biol. 21:153-154, 1999.
54. Whitsett, J.A., Glasser, S.W., Tichelaar, J.W., Perl, A-K., Clark, J.C. and Wert, S.E.: Transgenic models for study of lung morphogenesis and repair. Chest 120:27S-30S, 2001.
55. Miller, L-A.D., Wert, S.E. and Whitsett, J.A.: Surfactant proteins and cell markers in the respiratory epithelium of the amphibian, *Ambystoma mexicanum*. Comparative Biochemistry and Physiology Part A. 129:141-149, 2001.
56. LeVine, A.M. and Whitsett, J.A.: Pulmonary collectins and innate host defense of the lung. Microbes Infect. 3:161-166, 2001.
57. Whitsett, J.A.: Functions of surfactant proteins *in vivo* discerned by gene targeting in transgenic mice. HK J Paediatr. 6:96-99, 2001.
58. Crouch, E.C. and Whitsett, J.A.: Diverse roles of lung collectins in pulmonary innate immunity. Innate Immunity. Submitted.
59. Zhang, L. and Whitsett, J.A.: Molecular basis for surfactant function in ARDS. Submitted for publication.
60. Trapnell, B.C. and Whitsett, J.A.: GM-CSF regulates pulmonary surfactant homeostasis and alveolar macrophage-mediated innate host defense. Annu. Rev. Physiol. 64:775-802, 2002.
61. Whitsett, J.A.: A single genetic basis for familial interstitial lung diseases: misfolding or function of SP-C? Editorial article submitted Am. J. Respir. Crit. Care Med.

ABSTRACTS

1. Kierney, C., Einbender, E., Brown, E., Sweet, A. and Whitsett, J.A.: Comparison of measured and calculated serum bilirubin binding capacity (BBC) - a danger exposed. Pediatr. Res. 11:985, 1977.
2. Whitsett, J.A., Tsang, R.C. and Kleinman, L.I.: Human placental Ca-Mg stimulated ATPase activity. Pediatr. Res. 11:251, 1977.
3. Whitsett, J.A. and Tsang, R.C.: Tetany induced during intralipid infusion - elevated free fatty acids effect on serum ionized CA (iCa) *in vitro*. Pediatr. Res. 11:477, 1977.
4. Whitsett, J.A.: Insulin receptor localization in human placenta. Fed. Proc. 1978.
5. Whitsett, J.A. and Hawkins, K.: Maternal and fetal aspects of hormone regulation in the human placenta. Pediatr. Res. 12:458, 1978.
6. Whitsett, J.A., Tsang, R.C., Glueck, C.J., McLain, C., Russell, P., Joyce, T., Bove, K., Mellies, M. and Stainer, P.M.: Placental lipids, fatty acid composition, and enzymes in familial homozygous hypercholesterolemia. Pediatr. Res. 12:458, 1978.
7. Farrell, M.K., Such, F.J., Tsang, R.C., Steichen, J.J., Whitsett, J.A., Partin, J.C. and Schubert, W.K.: Neonatal hepatic rickets. Pediatr. Res. 12:434, 1978.
8. Whitsett, J.A., Hawkins, K., Johnson, C., Clark, K. and Stys, S.: Prostaglandin sensitive adenylate cyclase in ovine cervix and uterus: effects of pregnancy. American Physiology Society.
9. Whitsett, J.A. and Wallick, E.: Na-K ATPase and [³H]ouabain binding in human placental membranes. Am. Fed. Clin. Res. (Central Society), 1978.
10. Steven, J. and Whitsett, J.A.: Characteristics of insulin receptors in fetal myocardium. Midwest Society for Pediatric Research, 1978. Presented.
11. Whitsett, J.A., Lo, D., Bohn, J.P. and Tsang, R.C.: Characteristics of ATP dependent Ca²⁺ uptake in human placental vesicles. Midwest Society for Pediatric Research, 1987. Presented.
12. Whitsett, J.A. and Srivastava, L.S.: Insulin receptor of placental brush border membranes in maternal diabetes. Pediatr. Res. 13:239, 1979.
13. Steven, J. and Whitsett, J.A.: Insulin binding to human guinea pig and rat myocardial membranes. Pediatr. Res. 13:938, 1979.
14. Whitsett, J.A. and Wallick, E.T.: Sodium pump activity in the human placenta. Pediatr. Res. 13:947, 1979.
15. Whitsett, J.A., Moore, J., Noguchi, A. and Johnson, C.: β -Adrenergic receptors in human placenta, presented to Central Society Clinical Research, Chicago, November, 1979.
16. Ganguli, S., Whitsett, J.A., Voina, S., Velayo, N. and Sperling, M.: Development of insulin and glucagon receptors and adenylate cyclase in guinea pig liver plasma membrane, presented Midwest Society Pediatric Research, October, 1979.
17. Whitsett, J.A., Bohn, J. and Tsang, R.C.: Calcium transport by human placental vesicles. Pediatr. Res. 13:946, 1979.
18. Noguchi, A., Whitsett, J.A., Neely, J.E. and Darovec-Beckerman, C.: β -Adrenergic receptors (BAR)-adenylate cyclase (AC) and catecholamine in human neuroblastomas (NB) passaged on nude mouse. Pediatr. Res. 14:337, 1980. Presented, San Antonio, 1980.

19. Moore, J.J., Noguchi, A., Johnson, C.L., Hall, J. and Whitsett, J.A.: β -Adrenergic receptor in human and guinea pig placenta. Pediatr. Res. 14:264, 1980. Presented, San Antonio, 1980.
20. Noguchi, A., Whitsett, J.A., Neely, J. and Darovec-Beckerman, C.: Role of guanine nucleotides in mediation of adenylate cyclase in human neuroblastoma. Pediatr. Res. 14:667, 1980. Presented, San Antonio, 1980.
21. Whitsett, J.A., Ho, M. and Tsang, R.C.: Synthesis of 1,25 vitamin D3 by human placenta. Pediatr. Res. 14:944, 1980.
22. Whitsett, J.A., Pollinger, J., Darovec-Beckerman, C., Adams, K. and Needleman, H.: Thyroid dependent maturation of β -adrenergic receptors in rat lung. Presented, November, 1980 to Federation for Clinical Research, Chicago.
23. Whitsett, J.A., Hall, J. and Darovec-Beckerman, C.: β -Adrenergic receptors and adenylate cyclase in developing rat myocardium. Presented to Midwest Society for Pediatric Research, Chicago, November, 1980.
24. Whitsett, J.A.: Ontogeny of β -adrenergic receptors in mammalian lung. Pediatr. Res. 15:378, 1981.
25. Whitsett, J.A. and Darovec-Beckerman, C.: β -Adrenergic receptors and adenylate cyclase in developing rat myocardium. Pediatr. Res. 15:213, 1981. Presented, San Francisco, 1981.
26. Venkataraman, P.S., Tsang, R.C., Greer, F.R., Whitsett, J.A., Steichen, J.J. and Dodson, D.: Increasing serum parathormone (PTH) and migratory subcutaneous calcification in the pregression of pseudoseudohypoparathyroidism to pseudohypoparathyroidism. Pediatr. Res. 15:454, 1981. Presented, San Francisco, 1981.
27. Moore, J.J. and Whitsett, J.A.: Ontogeny of the β -adrenergic receptor in rabbit placenta. Pediatr. Res. 15:348, 1981. Presented, San Francisco, 1981.
28. Moore, J.J. and Whitsett, J.A.: β -Adrenergic receptor in mammalian placenta: comparison of rat, guinea pig, rabbit, human and trophoblastic tumors. Pediatr. Res. 15:274, 1981. Presented, San Francisco, 1981.
29. Venkataraman, P., Tsang, R.C., Greer, F., Steichen, J.J., Dodson, D. and Whitsett, J.A.: Increasing serum parathormone (PTH) and migratory subcutaneous calcification in the progression of pseudopseudohypoparathyroidism to pseudohypoparathyroidism. Pediatr. Res. 15:454, 1981.
30. Moore, J.J., Workman, L. and Whitsett, J.A.: Human trophoblast in hydatidiform mole contains β 1-adrenergic receptors coupled to adenylate cyclase. Presented, Central Society for Clinical Research, Chicago, 1981.
31. Whitsett, J.A., Burdsall, J., Matz, S., Workman, L. and Neely, J.: β -Adrenergic receptors as cell surface markers in childhood tumors. Presented, Central Society for Clinical Research, Chicago, 1981.
32. Rice, W. and Whitsett, J.A.: Ontogeny of cAMP phosphodiesterase and calmodulin activity in developing rat lung. Pediatr. Res. 16:226, 1981.
33. Whitsett, J.A., Matz, S. and Beckerman, C.: Development of cAMP dependent protein kinase(s) in the rat lung. Pediatr. Res. 16:243, 1982. Presented, Washington, D.C., 1982.
34. Moore, J.J., Pollinger, J. and Whitsett, J.A.: Adenosine 3'5'-monophosphate (c-AMP) binding protein and c-AMP dependent protein kinase (c-AMP-PK) in human placenta. Pediatr. Res. 16:291, 1982. Presented, Washington, D.C., 1982.

35. Whitsett, J.A., Burdsall, J.A. and Noguchi, A.: Ontogeny of α - and β -adrenergic receptors in rat lung. Pediatr. Res. 16:326, 1982. Presented, Washington, D.C., 1982.
36. Whitsett, J.A., Pollinger, J. and Matz, S.: Thyroid status and the development of myocardial β -adrenergic receptors (β -AR) in the rat. Pediatr. Res. 16:407, 1982. Presented, Washington, D.C., 1982.
37. Whitsett, J.A. and Hollinger, B.: Ontogenesis of muscarinic receptors in rat lung identified with [3 H]QNB (quinuclidinyl benzilate). Pediatr. Res. 17:157A, 1983.
38. Whitsett, J.A., Deitemeyer, D. and Feltner, E.: cAMP and Ca^{2+} -dependent protein phosphorylation in Type II pneumocytes. Pediatr. Res. 17:394A, 1983.
39. Rice, W. and Whitsett, J.A.: Effects of calcium channel blockers on surfactant release from purified Type II pneumocytes. Pediatr. Res. 17:388A, 1983.
40. Whitsett, J.A.: cAMP and Ca^{2+} -dependent protein phosphorylation in Type II pneumocytes. Fed. Proc. 42:298, 1983.
41. Zinsmeister, V.A.P. and Whitsett, J.A.: Morphologic features of isolated fetal Type II pneumocytes *in vitro*. Fed. Proc. 42:1269, 1983.
42. Kalinyak, K., Lampkin, B. and Whitsett, J.A.: β -Adrenergic receptors (β AR) in lymphocytes and lymphoblasts in childhood leukemia. Pediatr. Res. 17:235A, 1983.
43. Kalinyak, K., Lampkin, B. and Whitsett, J.A.: cAMP dependent protein kinase and phosphoproteins in lymphocytes and lymphoblasts in acute lymphocytic leukemia (ALL). Pediatr. Res. 17:235A, 1983.
44. Whitsett, J.A., Workman, L. and Neely, J.: β -Adrenergic receptors in pediatric tumors: β 1-adrenergic receptors in Ewing's sarcoma. Pediatr. Res. 17:143A, 1983.
45. Moore, J.J. and Whitsett, J.A.: cAMP, cGMP and calcium dependent phosphoproteins in human placenta. Pediatr. Res. 17:138A, 1983.
46. Whitsett, J.A. and Lessard, J.: Appearance of cAMP dependent actin phosphorylation in rat lung and Type II epithelial cells. J. Cell Biol. 97:1042, 1983.
47. Sawutz, D.G., Kalinyak, K., Whitsett, J.A. and Johnson, C.L.: Histamine H2 receptor desensitization in HL-60 human promyelocytic leukemia cells. Am. Soc. Pharm. Exp. Therap., 1983.
48. Kalinyak, K., Sawutz, D.G., Johnson, C., Lampkin, B.C. and Whitsett, J.A.: Effect of dimaprit on growth and differentiation of HL-60 human promyelocyte leukemic cells. J. Cell Biol. 97:1317, 1983.
49. Zinsmeister, V.A.P. and Whitsett, J.A.: Morphologic differences between differentiating Type II pneumocytes: *In vitro* vs. *in vivo*. American Association of Anatomists. Presented, Atlanta, Georgia, 1983.
50. Whitsett, J.A., Hull, W., Petro, M.A. and Shapiro, M.: Rat and human surfactant associated apoproteins. Pediatr. Res. 18:409A, 1984. Presented, San Francisco, 1984.
51. Whitsett, J.A., Feltner, E. and Hull, W.: Ontogenic regulation of phosphorylase kinase (PK) in rat lung. Pediatr. Res. 18:302A, 1984. Presented, San Francisco, 1984.
52. Rice, W.R., Osterhoudt, K.C. and Whitsett, J.A.: Surfactant release from isolated Type II epithelial cells: role of microfilaments (ACTIN). Pediatr. Res. 18:144A, 1984. Presented, San Francisco, 1984.
53. Rice, W.R., Hull, W. and Whitsett, J.A.: Role of cyclic 3',5'-adenosine monophosphate (cAMP) in surfactant release from Type II epithelial cells. Pediatric Res. 18:159A, 1984. Presented, San Francisco, 1984.

54. Hull, W., Weaver, T., Ross, G. and Whitsett, J.: Human surfactant associated apolipoprotein A: molecular composition and primary translation products. Pediatr. Res. 19:407A, 1985. Presented, Washington, D.C.
55. Daugherty, C., Dion, C. and Whitsett, J.A.: Organotypic cultures of rat pulmonary epithelial cells: morphologic differentiation. Pediatr. Res. 19:153A, 1985. Presented, Washington, D.C.
56. Nogee, L., Dion, C., Lorow, D. and Whitsett, J.A.: *In vitro* synthesis of surfactant associated apolipoprotein A: developmental aspects. Pediatr. Res. 19:160A, 1985. Presented, Washington, D.C.
57. Weaver, T.E., Hull, W.M. and Whitsett, J.A.: Identification of the intracellular precursor to rat pulmonary surfactant apolipoprotein(s) A. Pediatr. Res. 19:420A, 1985. Presented, Washington, D.C.
58. Rice, W.R. and Whitsett, J.A.: Does C-kinase regulate surfactant secretion? Am. Rev. Respir. Dis. 131:A359, 1985. Presented, Anaheim, California.
59. Weaver, T.E., Hull, W.M. and Whitsett, J.A.: Small molecular weight pulmonary surfactant protein precursor isolated from *in vitro* translated rat lung poly(A)⁺ mRNA. Am. Rev. Respir. Dis. 131:A366, 1985. Presented in Anaheim, California.
60. Ross, G., Hull, W., Meuth, J. and Whitsett, J.A.: Structural domains of canine surfactant-associated apolipoproteins A. Am. Rev. Respir. Dis. 131:A366, 1985. Presented, Anaheim, California.
61. Ross, G., Weaver, T.E., Ohning, B. and Whitsett, J.A.: Molecular forms of canine surfactant-associated apolipoproteins A: *in vitro* translation products and glycosylation. Am. Rev. Respir. Dis. 131:A366, 1985. Presented, Anaheim, California.
62. Rice, W.R., Whitsett, J.A.: Regulation of surfactant secretion by compound 48/80: Do neuropeptides control surfactant secretion? Am. Rev. Respir. Dis. 131:A254, 1985. Presented in Anaheim, California.
63. Ohning, B.L., Notter, R.H., Holm, B.A., Shapiro, D.L., Ross, G.F. and Whitsett, J.A.: The biophysical importance of a small (6,000 dalton) hydrophobic surfactant-associated apoprotein - SAP-6,000. Pediatr. Res. 20:437A, 1986.
64. Weaver, T.E., Clark, J., Daugherty, C., Pilot, T., Ross, G. and Whitsett, J.A.: Synthesis of surfactant-associated protein 35,000 in fetal lung organ culture. Pediatr. Res. 20:199A, 1986.
65. Hull, W.M., Whitsett, J.A., Ohning, B., Ross, G. and Weaver, T.E.: Immunologic identification of pulmonary surfactant-associated protein of Mr=6,000 daltons. Pediatr. Res. 20:432A, 1986.
66. Nogee, L., O'Reilly, M. and Whitsett, J.A.: Identification of intracellular precursors of 35,000 dalton surfactant-associated protein. Pediatr. Res. 20:194A, 1986.
67. McMahan, M.J., Mimouni, F., Miodovnik, M., Hull, W.M. and Whitsett, J.A.: Surfactant-associated 35k dalton protein in amniotic fluid: diabetic pregnancy. Pediatr. Res. 20:355A, 1986.
68. McMahan, M.J., Mimouni, F., Miodovnik, M., Hull, W.M. and Whitsett, J.A.: Surfactant-associated 35k dalton protein in amniotic fluid: gestational age and pulmonary maturity. Pediatr. Res. 20:435A, 1986.
69. Ross, G.F., Notter, R., Meuth, J. and Whitsett, J.A.: Characterization of the C-terminal domain of canine surfactant-associated 35 kilodalton apoprotein (SAP-35). Am. Rev. Respir. Dis. 133:A118, 1986.
70. Ohning, B.L., Ross, G.F., Weaver, T.E., Meuth, J. and Whitsett, J.A.: The purification and characterization of a small (Mr=6,000 daltons), hydrophobic, protein component of lung surfactant. Am. Rev. Respir. Dis. 133:A119, 1986.

71. Whitsett, J.A., Weaver, T.E., Lieberman, M.A., Clark, J.C. and Daugherty, C.: Differential effects of EGF and TGF- β in fetal lung. Pediatr. Res. 21:469A, 1987.
72. Glasser, S.W., Korfhagen, T.R., Weaver, T.E., Matias-Pilot, T., Fox, J.L. and Whitsett, J.A.: Cloning and predicted structure of hydrophobic surfactant protein SPL(Phe). Pediatr. Res. 21:361A, 1987.
73. Weaver, T.E., Glasser, S.W., Korfhagen, T.R., Kropp, K., Matias-Pilot, T., Clark, J.C. and Whitsett, J.A.: Synthesis and processing of pulmonary surfactant proteolipid SPL(Phe) in fetal lung. Pediatr. Res. 21:224A, 1987.
74. Nogee, L.M., Rice, W.R. and Whitsett, J.A.: Role of distinct pools of surfactant protein (SAP-35) in regulation of surfactant secretion. Pediatr. Res. 21:461A, 1987.
75. McMahan, M.J., Hull, W.M., Weaver, T.E., Johnson, J.R. and Whitsett, J.A.: Hydrophobic surfactant proteins (SAP-6) in human amniotic fluid: identification and quantification by gestation. Pediatr. Res. 21:460A, 1987.
76. Lotze, A., Short, B.L. and Whitsett, J.A.: Surfactant-associated protein (SAP) concentrations in lung lavage fluid in infants requiring extracorporeal membrane oxygenation (ECMO). Pediatr. Res. 21:458A, 1987.
77. Ross, G.F., Sawyer, J. and Whitsett, J.A.: Intermolecular crosslinks mediate aggregation of phospholipid vesicles by pulmonary surfactant-associated protein SAP-35. Presented to American Society of Biological Chemists, Philadelphia, PA, 1987.
78. O'Reilly, M.A., Nogee, L. and Whitsett, J.A.: Intracellular storage and secretion of pulmonary surfactant-associated protein (SAP-35). Presented to American Society of Biological Chemists, Philadelphia, PA, 1987.
79. Elledge, B., Whitsett, J.A., Kreishman, G.P. and Baatz, J.E.: Hydrophobic lung surfactant proteolipid SPL(pVal) alters phospholipid physical properties. Presented to American Society of Biological Chemists, Philadelphia, PA, 1987.
80. Whitsett, J.A., Glasser, S.W., Korfhagen, T.R., Weaver, T.E., Clark, J., Pilot-Matias, T., Meuth, J. and Fox, J.L.: Deduced amino acid sequence of human pulmonary surfactant proteolipid: SPL(pVal). Presented to American Society of Biological Chemists, Philadelphia, PA, 1987.
81. Weaver, T.E., Kropp, K.L. and Whitsett, J.A.: Processing of pulmonary surfactant proteolipid SPL(Phe) in rat lung Type II epithelial cells. Presented to American Society of Biological Chemists, Philadelphia, PA, 1987.
82. Joyce-Brady, M., Vaccaro, C., Whitsett, J.A. and Brody, J.S.: The human pulmonary alveolar Type II cell has two MPA-binding glycoproteins which are expressed during development in a discoordinate fashion. Am. Rev. Respir. Dis. 135:A62, 1987.
83. Ryan, R.M., Cirzolo, G., Morris, R. and Whitsett, J.A.: Surface receptor for surfactant protein on Type II epithelial cells. J. Cell Biol. 105(4):237a, 1987. Presented, St. Louis, MO, 1987.
84. Glasser, S.W., Korfhagen, T.R., Clark, J.C., Pilot-Matias, T.J., Weaver, T.E. and Whitsett, J.A.: cDNA and gene encoding surfactant protein SP-C: developmental and glucocorticoid regulation. J. Cell Biol. 105(4):155a, 1987. Presented, St. Louis, MO, 1987.
85. O'Reilly, M.A., Gazdar, A.F. and Whitsett, J.A.: Differential effects of glucocorticoid on expression of two surfactant proteins in a human lung adenocarcinoma cell line. J. Cell Biol. 105(4):323a, 1987. Presented, St. Louis, MO, 1987.
86. Weaver, T.E. and Whitsett, J.A.: Fatty acid acetylation of pulmonary surfactant-associated protein of 35,000 Daltons (SAP-35) in the rat. J. Cell Biol. 105(4):79a, 1987. Presented, St. Louis, MO, 1987.

87. Baughman, R.P. and Whitsett, J.A.: Effect of surfactant protein SAP-35 on alveolar macrophage tumor cytotoxicity. Clin. Res. 35(6):865A, 1987.
88. Linnoila, R.I., Whitsett, J.A., Mulshine, J.L., Jensen, S. and Gazdar, A.F.: Immunohistochemical (IHC) expression of surfactant-associated protein (SAP-35) in non-small cell lung cancer (NSCLC). Submitted, United States and Canadian Academy of Pathology.
89. Ross, G.F., Dorwin, S. and Whitsett, J.A.: Intramolecular disulfide pairs and trypsin sensitivity of canine pulmonary surfactant protein A (Mr=35,000). FASEB J. 2:A1716, 1988.
90. Ross, G.F., Rice, W.R., O'Connor, T. and Whitsett, J.A.: Inhibition of surfactant phospholipid secretion from Type II cells is mediated by the C-terminus of SP-A. Am. J. Respir. Dis. 137:278, 1988.
91. Weaver, T.E., Sarin, V. and Whitsett, J.A.: Synthesis of pulmonary surfactant-associated proteins in the rat. Pediatr. Res. 23:529A, 1988.
92. O'Reilly, M.A., Weaver, T.E., Sarin, V.K. and Whitsett, J.A.: Synthesis and processing of pulmonary surfactant protein proSP-B. Pediatr. Res. 23:517A, 1988.
93. Gerdes, J.S., Abbasi, S., Karp, K., Ritter, M. and Whitsett, J.A.: Bronchoalveolar lavage (BAL) surfactant protein-A-(SP-A) in neonates with RDS on conventional and high frequency ventilation. Pediatr. Res. 23:408A, 1988.
94. Ohning, B.L., Hull, W.M., Luse, S. and Whitsett, J.A.: Identity and biophysical activity of surfactant proteolipids SP-B and SP-C. Pediatr. Res. 23:517A, 1988.
95. Hull, W.M. and Whitsett, J.A.: Immunologic analysis of infants receiving surfactant-TA. Pediatr. Res. 23:411A, 1988.
96. Glasser, S.W., Korfhagen, T.R., Bruno, M.D., Clark, J.C., Perme, C.M. and Whitsett, J.A.: Regulatory elements of human pulmonary SP-C genes. Pediatr. Res. 23:243A, 1988.
97. Korfhagen, T.R., Glasser, S.W., Bruno, M.D., Clark, J.C., Pilot-Matias, T.J. and Whitsett, J.A.: Complexity of human pulmonary SP-A gene sequences. Pediatr. Res. 23:513A, 1988.
98. Kister, S.E., Pilot-Matias, T.J., Janis, R.S., Glasser, S.W. and Whitsett, J.A.: Characterization of the gene encoding the hydrophobic surfactant protein SPL(Phe). Pediatr. Res. 23:512A, 1988.
99. Ryan, R.M., Morris, R.E., Rice, W.R., Ciruolo, G.M. and Whitsett, J.A.: Surfactant protein (SP-A) binds to coated pits and is internalized by Type II epithelial cells. Pediatr. Res. 23:523A, 1988.
100. Rice, W.R., Sarin, V. and Whitsett, J.A.: Small surfactant associated peptides (SP-B and SP-C) stimulate phosphatidylcholine transfer to cells. Pediatr. Res. 23:522A, 1988.
101. Rich, E.A., Whitsett, J.A., Ross, G., Werber, H.I., Sedor, J.R., Weatherstone, K.B., Panuska, J.R. and Ellner, J.J.: Induction of tumor necrosis factor activity in human alveolar macrophages and U937 cells by a major surfactant-associated protein. Clin. Res. 36:592A, 1988.
102. Baughman, R.P. and Whitsett, J.A.: The effect of cigarette smoking on a surfactant apoprotein. Clin. Res. 36:503A, 1988.
103. O'Reilly, M.A., Weaver, T.E., Pilot-Matias, T.J., Sarin, V.K., Gazdar, A.F. and Whitsett, J.A.: *In vitro* translation, post-translational processing and secretion of pulmonary surfactant protein B precursors. J. Cell Biol. 1988.

104. Baatz, J.E. and Whitsett, J.A.: Effects of pulmonary surfactant protein SP-B on the organization of model membrane lipids. Am. Rev. Respir. Dis. 139:A284, 1989.
105. Elledge, B.W. and Whitsett, J.A.: Interaction of lung surfactant protein C (SP-C) with phospholipid bilayers: spectroscopic studies. Am. Rev. Respir. Dis. 139:A285, 1989.
106. O'Reilly, M.A., Gazdar, A.F., Clark, J.C., Pijot-Matias, T.J., Wert, S.E. and Whitsett, J.A.: Differential expression of surfactant protein in response to glucocorticoids in a human lung adenocarcinoma cell line. Am. Rev. Respir. Dis. 139:A284, 1989.
107. Elledge, B.W. and Whitsett, J.A.: Interaction of lung surfactant protein C with lipid bilayers of varying hydrophobic span. Pediatr. Res. 25:308A, 1989.
108. Noguee, L.M., Wispé, J.R., Clark, J.C. and Whitsett, J.A.: Hyperoxia increases mRNA and alveolar content of surfactant proteins A, B, and C (SP-A, SP-B and SP-C). Pediatr. Res. 25:370A, 1989.
109. Savani, R.C., O'Reilly, M.A. and Whitsett, J.A.: Insulin inhibits surfactant protein B (SP-B) expression in a lung adenocarcinoma cell line. Pediatr. Res. 25:325A, 1989.
110. McMahan, M.J., Pryhuber, G.S., Luse, S., Hull, W.M. and Whitsett, J.A.: Hydrophobic surfactant protein (SP-B) in human amniotic fluid. Pediatr. Res. 25:56A, 1989.
111. Pryhuber, G.S., Hull, W.M., Clark, J.C. and Whitsett, J.A.: Effect of phorbol ester on expression of SP-A. Pediatr. Res. 25:58A, 1989.
112. Ohning, B.L., Sarin, V., Fox, J.L. and Whitsett, J.A.: Identity and biophysical activity of native and synthetic surfactant proteolipids SP-B and SP-C. Pediatr. Res. 25:322A, 1989.
113. Rice, W.R., Sarin, V.K., Baatz, J.E. and Whitsett, J.A.: Uptake of phosphatidylcholine by Type II cells: regulation by SP-B. Pediatr. Res. 25:323A, 1989.
114. Baatz, J.E., Whitsett, J.A. and Dey, C.: Effects of synthetic human surfactant protein SP-B polypeptide fragments on membrane bilayer surface order. Am. Rev. Respir. Dis. 141:A693, 1990.
115. Pryhuber, G.S., O'Reilly, M.A., Clark, J.C. and Whitsett, J.A.: Pretranslational inhibition of surfactant proteins A and B by phorbol ester, 12-O-tetradecanoyl-phorbol-13-acetate. Am. Rev. Respir. Dis. 141:A693, 1990.
116. Wispé, J., Clark, J., Hull, W., Holtzman, R. and Whitsett, J.A.: Tumor necrosis factor α inhibits surfactant-associated protein A expression. Am. Rev. Respir. Dis. 141:A692, 1990.
117. Wert, S.E., Korfhagen, T.R., Glasser, S.W., Daugherty, C.C., Potter, S.S. and Whitsett, J.A.: Morphological analysis of lung cell ablation in transgenic mice expressing a toxic fusion gene. Am. Rev. Respir. Dis. 141:A695, 1990.
118. Korfhagen, T.R., Glasser, S.W., Bruno, M.D., McMahan, M.J., Clark, J.C. and Whitsett, J.A.: Isolation and analysis of the murine surfactant protein-A genomic locus. Am. Rev. Respir. Dis. 141:A696, 1990.
119. Glasser, S.W., Korfhagen, T.R., Clark, J.C., Bruno, M.D., McMahan, M.J. and Whitsett, J.A.: Structure nucleotide sequence and tissue-specific expression of murine gene encoding pulmonary surfactant protein-C. Am. Rev. Respir. Dis. 141:A693, 1990.
120. O'Reilly, M.A., Clark, J.C. and Whitsett, J.A.: Transcriptional and post-transcriptional regulation of human pulmonary surfactant protein B expression by glucocorticoids. Am. Rev. Respir. Dis. 141:A693, 1990.

121. Gerdes, J.S., Long, W.A., Hull, W. and Whitsett, J.A.: Surfactant proteins A and B in bronchoalveolar lavage (BAL) from neonates with RDS treated with exosurf pediatric. Pediatr. Res. 27:303A, 1990.
122. Whitsett, J.A., Vorbroker, D., Dey, C. and Weaver, T.E.: Biosynthesis of surfactant protein SP-C. J. Cell Biol. 111:463A, 1990.
123. Glasser, S.W., Korfhagen, T.R., Wert, S.E., Bruno, M.D. and Whitsett, J.A.: Deletional analysis of the 5'-flanking region of human pulmonary surfactant SP-C gene promoter in transgenic mice. Am. Rev. Respir. Dis. 143:A514, 1991.
124. Venkitaraman, A.R., Hall, S.B., Holm, B.A., Whitsett, J.A. and Notter, R.H.: Hydrophobic surfactant apoproteins as coconstituents of clinical exogenous lung surfactants. Am. Rev. Respir. Dis. 143:A313, 1991.
125. Vorbroker, D.K. and Whitsett, J.A.: Palmitoylation of surfactant protein SP-C in fetal lung explants and recombinant cells. Pediatr. Res. 29:333A, 1991.
126. Wikenheiser, K.A., Wispé, J.R., Wert, S.E., D'Amore-Bruno, M., Singh, G., Katyal, S. and Whitsett, J.A.: Oxygen induces surfactant protein B expression in the bronchiolar epithelium. Pediatr. Res. 29:335A, 1991.
127. Hull, W.M., Breslin, J., Weaver, T.E. and Whitsett, J.A.: Distribution of surfactant proteins, SP-A and SP-B, in surfactant subfractions and lamellar bodies. Pediatr. Res. 29:320A, 1991.
128. Budden, A., Hull, W.M., Clark, J., O'Reilly, M. and Whitsett, J.A.: TGF- β inhibits surfactant protein-A synthesis *in vitro*. Pediatr. Res. 29:37A, 1991.
129. Stahlman, M.T., Gray, M.E., Ross, G.F., Hull, W.M., Wikenheiser, K., Dingle, S., Zelenski-Low, K.R. and Whitsett, J.A.: Human surfactant protein-A contains major blood group antigenic determinants. Pediatr. Res. 29:330A, 1991.
130. Stahlman, M.T., Gray, M.E. and Whitsett, J.A.: The ontogeny and distribution of surfactant protein B (SP-B) in human fetuses and newborns. Pediatr. Res. 29:331A, 1991.
131. Stahlman, M.T., Gray, M.E., Sundell, H. and Whitsett, J.A.: Ontogeny of surfactant protein A (SP-A) and surfactant protein B (SP-B) in fetal lambs. Pediatr. Res. 29:331A, 1991.
132. Wert, S.E., Glasser, S.W., Korfhagen, T.R. and Whitsett, J.A.: Differential expression of surfactant protein SP-C and a SP-C-CAT fusion gene in the developing lungs of transgenic mice. Anat. Rec. 229:92A, 1991.
133. Stripp, B.R., Wikenheiser, K., Huffman, J.A., Lattier, D.L. and Whitsett, J.A.: Transcriptional regulatory elements conferring lung epithelial cell expression of the rat CC10 gene. Pediatr. Pulmonol. Suppl. 6:228, 1991.
134. Wikenheiser, K.A., Stahlman, M., Wispé, J.R., Wert, S.E., D'Amore-Bruno, M., Singh, G., Katyal, S. and Whitsett, J.A.: Oxygen induces surfactant protein B (SP-B) in the bronchiolar epithelium. Pediatr. Pulmonol. Suppl. 6:273, 1991.
135. Wert, S.E., Glasser, S.W., Korfhagen, T.R. and Whitsett, J.A.: Early progenitor cell expression of surfactant protein C and an SP-C-CAT fusion gene in the developing lungs of transgenic mice. Pediatr. Pulmonol. Suppl. 6:237, 1991.
136. Rider, E.D., Jobe, A.H., Ikegami, M., Absolom, D. and Whitsett, J.A.: *In vivo* treatment responses of native surfactant protein C (SP-C). Pediatr. Res. 31:320A, 1992.
137. Stahlman, M.T., Gray, M.E. and Whitsett, J.A.: The ontogeny and distribution of surfactant protein C (SP-C) in human fetuses and newborns. Pediatr. Res. 31:320A, 1992.

138. Wispé, J.R., Warner, B.B., Clark, J.C., Chang, L.-Y., Crapo, J.D. and Whitsett, J.A.: Selective expression of human Mn-SOD in pulmonary epithelial cells protects transgenic mice for oxygen injury. Pediatr. Res. 31:326A, 1992.
139. Wispé, J.R., Warner, B.B., Clark, J.C., Dey, C.R., Crapo, J.D., Chang, L.-Y., and Whitsett, J.A.: Expression of human Mn-SOD in pulmonary epithelial cells of transgenic mice confers protection from oxygen injury. Am. Rev. Respir. Dis. 145:A712, 1992.
140. Stripp, B.R., Wikenheiser, K., Wert, S., Huffman, J.A., Lattier, D.L. and Whitsett, J.A.: Mapping of airway epithelial specific transcriptional regulatory sequences upstream from the rat CC10 gene. Am. Rev. Respir. Dis. 145:A831, 1992.
141. Glasser, S.W., Wert, S.E., Korfhagen, T.R., Burhans, M.S., Bruno, M.D., Fink, I. and Whitsett, J.A.: Expression of the human SP-C gene promoter in independent transgenic mouse lines. Am. Rev. Respir. Dis. 145:A225, 1992.
142. Gregory, T.J., Longmore, W.J., Moxley, M.A., Whitsett, J.A., Reed, C.A., Fowler, A.A., Hudson, L.D., Maunder, R.J., Crim, C. and Hyers, T.M.: Temporal alterations in surfactant composition and surfactant activity in acute respiratory distress syndrome (ARDS). Am. Rev. Respir. Dis. 145:A847, 1992.
143. Lesur, O., Veldhuizen, R.A.W., Whitsett, J.A., Hull, W.M., Possmayer, F., Cantin, A. and Bégin, R.: Enhanced accumulation of lung surfactant-associated proteins (SP-A, SP-B) and phospholipids do not alter the surfactant functionalities in silicosis. Am. Rev. Respir. Dis. 145:A131, 1992.
144. Transvalidou, F., Venkitaraman, A., Whitsett, J.A., Hall, S.B. and Notter, R.H.: Surface interactions of DPPC and lung surfactant apoproteins during dynamic compression. Am. Rev. Respir. Dis. 145:A140, 1992.
145. Baatz, J.E., Smyth, K.L. and Whitsett, J.A.: Conformational analysis of lung surfactant proteins SP-B and SP-C as determined by fourier transform infrared spectroscopy. Am. Rev. Respir. Dis. 145:A140, 1992.
146. Rider, E.D., Jobe, A.H., Ikegami, M. and Whitsett, J.A.: Effects of surfactant proteins A (SP-A) and B (SPB) on surfactant function *in vivo*. Am. Rev. Respir. Dis. 145:A140, 1992.
147. Baughman, R.P., Sternberg, R., Buchsbaum, J., Hull, W.M. and Whitsett, J.A.: Surfactant-associated protein A (SP-A) levels are reduced in the lung fluid of patients with bacterial pneumonia. Clin. Res. 40(2):A279, 1992.
148. Wert, S.E., McCarty, J.A., Dey, C. and Whitsett, J.A.: Developmental expression of the murine CFTR mRNA during organogenesis of the lung. Pediatr. Pulmon., Sup. 8:115, 1992.
149. Korfhagen, T., Swantz, R., McCarty, J., Glasser, S., Wert, S. and Whitsett, J.: Pulmonary fibrosis in transgenic mice bearing SP-C-TGF- α chimeric genes. Pediatr. Pulmon., Sup. 8:172, 1992.
150. Whitsett, J.A., Dey, C., Wert, S., Clark, J. and McCarty, J.: Expression of human CFTR and endogenous murine CFTR in testes of transgenic mice. Pediatr. Pulmon., Sup. 8:172, 1992.
151. Sternberg, R.I., Whitsett, J.A., Hull, W.M. and Baughman, R.P.: Surfactant protein-A (SP-A) as a marker for malignancy in pleural fluid. Am. Rev. Respir. Dis. 147:A93, 1993.
152. Sternberg, R.I., Whitsett, J.A., Hull, W.M. and Baughman, R.P.: Pneumocystis carinii alters surfactant protein-A concentrations found in bronchoalveolar lavage fluid. Am. Rev. Respir. Dis. 147:A33, 1993.
153. Wikenheiser, K.A., Clark, J.C., Oie, H.K. and Whitsett, J.A.: Generation and characterization of established lung cell lines from transgenic mice harboring the SV40 large T antigen. Am. Rev. Respir. Dis. 147:A51, 1993.

154. Bachurski, C.J., Wikenheiser, K.A. and Whitsett, J.A.: Phorbol ester and the TNF α inhibit surfactant protein C mRNA in a murine pulmonary epithelial cell line. Am. Rev. Respir. Dis. 147:A728, 1993.
155. Stripp, B.R., Huffman, J.A., Wert, S.E. and Whitsett, J.A.: Characterization of cell type-specific transcriptional regulatory elements of the rat CC10 gene. Am. Rev. Respir. Dis. 147:A273, 1993.
156. Horowitz, A.D., Baatz, J.E. and Whitsett, J.A.: Pulmonary surfactant protein SP-C: aggregation and interaction with lipids studied by fluorescence. Am. Rev. Respir. Dis. 147:A146, 1993.
157. Pryhuber, G.S., Kroft, T., Church, S.L. and Whitsett, J.A.: 3' untranslated region of surfactant protein B mRNA confers phorbol ester and tumor necrosis factor- α response to heterologous reporter gene. Am. Rev. Respir. Dis. 147:A726, 1993.
158. Wert, S.E., McCarty, J.A., Dey, C.R. and Whitsett, J.A.: Expression of the CFTR gene during epithelial cell differentiation in the developing mouse lung. Am. Rev. Respir. Dis. 147:A941, 1993.
159. Bohinski, R.J., Lattier, D.L., Huffman, J. and Whitsett, J.A.: Cis-active elements controlling lung cell specific transcription of human pulmonary surfactant protein B gene. Am. Rev. Respir. Dis. 147:A727, 1993.
160. Korfhagen, T.R., Swantz, R., McCarty, J., Glasser, S., Wert, S. and Whitsett, J.: Transgenic mice bearing SP-C-TGF α transgenes form fibrotic-like interstitial lesions. Am. Rev. Respir. Dis. 147:A277, 1993.
161. Bohinski, R.J., D'Amore-Bruno, M. and Whitsett, J.A.: Therapeutic strategies for surfactant for surfactant protein SP-B deficiency. Presented at the Keystone Symposia on Molecular and Cellular Biology, April, 1993.
162. Rice, W.R., Wikenheiser, K.A., Bachurski, C.J., Whitsett, J.A. and Singleton, F.M.: Surfactant phosphatidylcholine secretion from a murine Type II-like epithelial cell line. Pediatr. Res. 33:342A, 1993.
163. Nogee, L., Hull, W., Whitsett, J., Hamvas, A. and Cole, F.S.: Inherited surfactant protein (SP-) B deficiency: prenatal diagnosis. Pediatr. Res. 33:227A, 1993.
164. Hamvas, A., Cole, F.S., deMello, D., Moxley, M., Whitsett, J. and Nogee, L.: Inherited surfactant protein-B (SP-B) deficiency: effects of surfactant replacement. Pediatr. Res. 33:328A, 1993.
165. deMello, D.E., Dehner, L.P., Hamvas, A., Nogee, L., Whitsett, J. and Colten, H.R.: Ultrastructure of lung in surfactant protein B (SP-B) deficiency suggests a disorder of surfactant metabolism. Pediatr. Res. 33:322A, 1993.
166. Dey, C., Whitsett, J.A., Wikenheiser, K.A., Bachurski, C., Trapnell, B., Mitterender, N., Mohanti, S., Malinowska, D. and Cuppoletti, J.: Expression of hCFTR mRNA in a clonal mouse lung epithelial cell line directed by lung specific promoter elements from the SP-C gene. Pediatr. Pulmon. Sup. 9:245, 1993.
167. Ikeda, K., Clark, J.C., Wikenheiser, K.A., Bachurski, C.J., Mohanti, S., Cuppoletti, J. and Whitsett, J.A.: Clonal epithelial cell lines expressing murine CFTR and other markers characteristic of the murine fetal lung. Pediatr. Pulmon. Sup. 9:252, 1993.
168. Warner, B., Wispé, J., Whitsett, J., Mittereder, N. and Trapnell, B.: Inflammatory response following adenoviral mediated gene transfer in the hamster and rabbit. Pediatr. Pulmon. Sup. 9:246, 1993.
169. Bachurski, C.J., Weaver, T.E., Yei, S., Trapnell, B. and Whitsett, J.A.: Adenoviral mediated gene transfer of surfactant protein B (SP-B) in immortalized murine respiratory epithelial cells. Pediatr. Pulmon. Sup. 9:244, 1993.

170. Whitsett, J.A., Wert, S.E., Stahlman, M.T. and Gray, M.: Surfactant protein A, B, and C expression in epithelial cells of the respiratory tract of the lung in CF. Pediatr. Pulmon. Sup. 9:252, 1993.
171. Trapnell, B.C., Yei, S., Wert, S., Mittereder, N. and Whitsett, J.A.: Evaluation of the host response to *in vivo* adenovirus-mediated gene transfer. Pediatr. Pulmon. Sup. 9:241, 1993.
172. Yei, S., Weaver, T., Whitsett, J.A. and Trapnell, B.C.: Direct *in vivo* transfer and expression of the normal human surfactant B cDNA in epithelium of the respiratory tract using an adenoviral vector. Pediatr. Pulmon. Sup. 9:246, 1993.
173. Rankin, J.A., Picarella, D., Tarallo, A., DiCosmo, B., Whitsett, J.A., Stripp, B. and Flavell, R.A.: *In vivo* effects of the overexpression of IL-4 in the lungs of transgenic mice. Am. J. Resp. Crit. Care Med. 149:A1071, 1994.
174. Baughman, R.P., Keeton, D.A., Hull, W. and Whitsett, J.A.: Surfactant protein A concentrations in mycobacterial and fungal infections. Am. J. Resp. Crit. Care Med. 149:A613, 1994.
175. Pina, E.M., Whitsett, J.A., Keeton, D.A. and Baughman, R.P.: Cellular and surfactant protein A quantification in bronchial and bronchoalveolar samples. Am. J. Resp. Crit. Care Med. 149:A332, 1994.
176. Gunther, K., Baughman, R.P., Pattishall, E. and Whitsett, J.A.: Evaluation of intrapulmonary interleukin-8 in patients with sepsis-induced adult respiratory distress syndrome. Am. J. Resp. Crit. Care Med. 149:A427, 1994.
177. Zhou, L., Dey, C., Wert, S., O'Reilly, M. and Whitsett, J.: Altered lung morphogenesis in transgenic mice bearing a SP-C TGF- β 1 chimeric gene. Am. J. Resp. Crit. Care Med. 149:AA253, 1994.
178. Bachurski, C.J., Pryhuber, G.S., Wikenheiser, K.A., Weaver, T.E., Yei, S.P., Trapnell, B.C. and Whitsett, J.A.: Adenoviral-mediated expression of human SP-B in murine respiratory epithelial cells *in vivo* and *in vitro*. Am. J. Resp. Crit. Care Med. 149:A238, 1994.
179. Bruno, M.A., Bohinski, R.J., Carter, J.E., Foss, K.A. and Whitsett, J.A.: Structural and functional analysis of the murine SP-B gene. Am. J. Resp. Crit. Care Med. 149:A523, 1994.
180. Vorbroek, D.K., Noguee, L.M. and Whitsett, J.A.: Aberrant processing of surfactant protein C in hereditary surfactant protein B deficiency. Am. J. Resp. Crit. Care Med. 149:A501, 1994.
181. Ikeda, K., Clark, J.C., Bachurski, C.J., Wikenheiser, K.A., Cuppoletti, J., Mohanti, S., Morris, R.E. and Whitsett, J.A.: Respiratory epithelial cells from transgenic mice bearing SV40 large T antigen. Am. J. Resp. Crit. Care Med. 149:A714, 1994.
182. Wert, S.E., Dranoff, G., Bachurski, C.J., Proffitt, S.A., Hull, W.M., Mulligan, R.C. and Whitsett, J.A.: Extracellular accumulation of surfactant proteins A, B, C and D in alveolar proteinosis after GM-CSF gene ablation in transgenic mice. Am. J. Resp. Crit. Care Med. 149:A244, 1994.
183. Pryhuber, G., Bachurski, C., Hirsch, R. and Whitsett, J.: Decreased SP-B and SP-C mRNA, associated with increased serum TNF- α , induced by monoclonal anti-murine CD3 antibody *in vivo*. Am. J. Resp. Crit. Care Med. 149:A518, 1994.
184. Horowitz, A.D., Han, E.D. and Whitsett, J.A.: Uptake of pulmonary surfactant protein SP-C by a mouse lung epithelial cell line. Am. J. Resp. Crit. Care Med. 149:A503, 1994.
185. Bohinski, R.J. and Whitsett, J.A.: Hepatocyte nuclear factor 3 interacts with the human surfactant protein B gene promoter in close apposition to a lung-enriched factor. Am. J. Resp. Crit. Care Med. 149:A499, 1994.

186. Kerlakian, C., Wert, S., Bruno, M., Swantz, R., Glasser, S., Whitsett, J. and Korfhagen, T.: Epidermal growth factor-receptor expression in fibrotic lesions of transgenic mice expressing TGF- α . Am. J. Resp. Crit. Care Med. 149:A803, 1994.
187. Bruno, M., Fink, I., Glasser, S., Whitsett, J. and Korfhagen, T.: Cis-active regulation of the murine surfactant protein A (SP-A) gene identified in murine cells lines. Am. J. Resp. Crit. Care Med. 149:A522, 1994.
188. Fox, J., Conklin, K., Jessurun, J., Henke, C., King, M., Whitsett, J., Chiang, L., Doran, P. and Bitterman, P.: Acute lung injury: a transgenic murine model of intraalveolar fibrosis. Am. J. Resp. Crit. Care Med. 149:A430, 1994.
189. Huelsman, K.M., Ross, G.F., Whitworth, T.D., Bruno, M.D., Whitsett, J.A., Korfhagen, T.R. and Baatz, J.E.: Modified pulmonary surfactant protein-C as an agent for delivery of DNA to airway cells in culture. Am. J. Resp. Crit. Care Med. 149:A33, 1994.
190. Horowitz, A.D. and Whitsett, J.A.: Interactions of surfactant proteins SP-C and SP-B with lipids studied by fluorescence energy transfer. Am. J. Resp. Crit. Care Med. 149:A96, 1994.
191. An, G., Luo, G., Zhao, Y., Plopper, C.G., Whitsett, J.A. and Wu, R.: Differential expression and cloning of surfactant protein C (SP-C) cDNA from non-human primate lung after ozone exposure. Am. J. Resp. Crit. Care Med. 149:A99, 1994.
192. Enelow, R.I., Agersborg, A., Kerlakian, C., Whitsett, J.A. and Braciale, T.J.: A transgene expressed in murine alveolar Type II epithelial cells *in vivo* leads to specific CD8+ T-cell tolerance but CD4+ T-cell and B cell reactivity: a model for the study of antigen processing in the lung. Am. J. Resp. Crit. Care Med. 149:A263, 1994.
193. DiCosmo, B., Geba, G.P., Picarella, D., Elias, J.A., Rankin, J.A., Stripp, B., Whitsett, J.A., Tarallo, A. and Flavell, R.A.: Effects of interleukin-6 on airway inflammation and hyperresponsiveness in transgenic mice. Am. J. Resp. Crit. Care Med. 149:A279, 1994.
194. Khor A., Stahlman, M.T., Gray, M.E. and Whitsett, J.A.: A comparison of proSP-B and fully processed SP-B with SP-B mRNA in the developing fetal lung. Pediatr. Res. 35:340A, 1994.
195. Enelow, R.I., Kerlakian, C., Agersborg, S., Whitsett, J.A. and Braciale, T.J.: A transgene expressed in alveolar Type II epithelial cells *in vivo* leads to specific CD8 T-cell tolerance but CD4+ T-cell and B cell reactivity: A model for the study of antigen processing in the lung. Clin. Res. 42:189A, 1994.
196. Vincent, M.C., Trapnell, B.C., Baughman, R.P., Wert, S.E., Whitsett, J.A. and Iwamoto, H.S.: Adenovirus-mediated gene transfer to the respiratory tract of fetal sheep *in utero*. Pediatr. Res. 35:356A, 1994.
197. Miller, M.J., Whitsett, J., Nogee, L., Stahlman, M.: Disturbance of distal respiratory epithelial maturation: A potential etiology for pulmonary failure in the newborn. Pediatr. Res. 35:345A, 1994.
198. Bohinski, R.J. and Whitsett, J.A.: Surfactant protein B gene promoter directs lung-specific gene expression and contains a complex nuclear protein binding site for thyroid transcription factor TTF-1 and hepatocyte nuclear factor 3. Pediatr. Res. 35:326A, 1994.
199. Wilmott, R.W., Amin, R.S., Perez, C.R., Wert, S.E., Whitsett, J.A. and Trapnell, B.C.: Transfer of the CFTR cDNA to the lung of non-human primates by a recombinant adenovirus: a study of toxicity. Pediatr. Res. 35:400A, 1994.
200. Pryhuber, G.S., Bachurski, C. and Whitsett, J.: Murine SP-B and SP-C mRNA decreased following intratracheal TNF- α . Submitted 5th International TNF Congress.

201. Miyazaki, Y., Araki, K., Piguet, P.-F., Vosin, C., Kapanai, Y., Whitsett, J.A. and Vassali, P.: Pulmonary fibrosis in transgenic mice over-expressing TNF α in alveolar Type II pneumocytes. Submitted 5th International TNF Congress.
202. Wei, Y., Yarus, S., Whitsett, J.A., Greenberg, N.M. and Rosen, J.M.: Production of human surfactant protein C in the milk of transgenic mice. Presented, BioInternational '94, Houston, TX.
203. Morris, R.E., Ciruolo, G., Korfhagen, T., Baatz, J.E., Whitsett, J.A. and Ross, G.F.: Receptor-mediated transfection of lung adenocarcinoma cells in culture using surfactant protein A:poly-L-lysine conjugates. Pediatr. Pulm., Sup. 10:231, 1994.
204. Glasser, S.W., Kelly, S.E., Korfhagen, T.R., Whitsett, J.A., Burhans, M.S. and Wert, S.E.: Analysis of transcriptional control elements from the surfactant protein C gene. Pediatr. Pulm., Sup. 10:246, 1994.
205. Zsengeller, Z.S., Hull, W., Wert S., Trapnell, B., Yei, S. and Whitsett, J.A.: Gene expression and inflammatory responses after adenoviral mediated gene transfer in nude versus wild type mice. Pediatr. Pulm., Sup. 10:236, 1994.
206. Baatz, J., Huelsman, K., Bruno, M., Ross, G., Glasser, S., Whitsett, J. and Korfhagen, T.: Comparison of surfactant protein B and surfactant protein C polylysine complexes for DNA transfection of airway cells *in vitro*. Pediatr. Pulm., Sup. 10:224, 1994.
207. Korfhagen, T., Bruno, M., Bohinski, B., Fink, I. and Whitsett, J.: Cell specific expression determined by surfactant protein A gene sequences. Pediatr. Pulm., Sup. 10:247, 1994.
208. Zhou, L., Dey, C.R., Wert, S.E., DuVall, M.D., Frizzell, R.A. and Whitsett, J.A.: Correction of lethal gastrointestinal obstruction in CFTR deficient mice by expression of human CFTR mRNA in intestinal epithelial cells. Pediatr. Pulm., Sup. 10:235, 1994.
209. Horowitz, A.D., Han, E.D. and Whitsett, J.A.: Uptake of lipids and surfactant protein SP-C by pulmonary epithelial cells. Pediatr. Pulm., Sup. 10:246, 1994.
210. Holzinger, A., Trapnell, B.C., Vincent, M.C., Whitsett, J.A. and Iwamoto, H.S.: Intraamniotic administration of an adenoviral vector for specific gene transfer to fetal tissues. Pediatr. Pulm., Sup. 10:227, 1994.
211. Yei, S., Mittereder, N., Whitsett, J.A., Wilmott, R. and Trapnell, B.C.: The role of the host response in adenovirus vector-mediated gene therapy for cystic fibrosis lung disease: toxicology and pharmacokinetics. Pediatr. Pulm., Sup. 10:151, 1994.
212. Bachurski, C.J., Kelly, S.E., Heminger, K.A. and Whitsett, J.A.: Transcriptional down regulation of the surfactant protein-C gene by the TNF- α in murine lung epithelial cells. Mol. Biol. Cell (Sup.)5:86a, 1994.
213. Al-Khafaji, B., Bejarano, P., Baughman, R., Whitsett, J., Miller, M., Fenoglio-Preiser, C.: Thyroid transcription factor (TTF-1), a regulator of lung specific surfactant protein-B gene: expression in carcinomas and diagnostic utility. Modern Pathology 8:#852, 1995.
214. Bejarano, P., Baughman, R., Biddinger, P., Fenoglio-Preiser, C., Al-Khafaji, B., Miller, M. and Whitsett, J.: Immunohistochemical expression of surfactant proteins A and B (SP-A, SP-B) and TTF-1 to distinguish lung and breast carcinomas. Modern Pathology 8:#865, 1995.
215. Jobe, A.H., Ikegami, M., Ueda, T., Purtel, U.J., Wert, S., Whitsett, J.A. and Trapnell, B.C.: Enhancement of adenoviral-mediated gene transfer with surfactant. Am. J. Respir. Crit. Care Med. 151:A671, 1995.
216. Stripp, B., Doven, K., Maxson, K., Johnston, C., Baggs R. and Whitsett, J.: Ablation of the gene for Clara cell secretory protein for determination of its *in vivo* function. Am. J. Respir. Crit. Care Med. 151:A540, 1995.

217. Plopper, C., Helton, C., Weir, A., Whitsett, J. and Korfhausen, T.: Quantitative comparison of lung compartmentalization in transgenic mice expressing transforming growth factor- α (TGF- α). Am. J. Respir. Crit. Care Med. 151:A302, 1995.
218. Bruno, M., Huelsman, K., Glasser, S., Whitsett, J. and Korfhausen, T.: Regulation of cell-specific expression of the murine SP-A gene. Am. J. Respir. Crit. Care Med. 151:A163, 1995.
219. Yan, C., Bohinski, R. and Whitsett, J.A.: Upstream element enhancing SP-B gene expression. Am. J. Respir. Crit. Care Med. 151:A166, 1995.
220. Hardie, W., Wert, S., Kerlakian, C., Glasser, S., Bruno, M., Whitsett, J. and Korfhausen, T.: Alterations in alveolarization of lungs of transgenic mice expressing transforming growth factor- α (TGF- α). Am. J. Respir. Crit. Care Med. 151:A299, 1995.
221. Horowitz, A.D., Whitsett, J.A., Moussavian, B. and Han, E.D.: Modulation of SP-C and lipid uptake in pulmonary cells by surfactant proteins. Am. J. Respir. Crit. Care Med. 151:A305, 1995.
222. Zhou, L., Dey, C., Wert, S., O'Reilly, M., Slanders, K. and Whitsett, J.: Altered lung development in transgenic mice bearing SP-C TGF- β 1 chimeric gene. Am. J. Respir. Crit. Care Med. 151:A303, 1995.
223. Ikeda, K., Clark, J.C., Shaw-White J. and Whitsett, J.A.: Gene structure and lung cell specific expression of human TTF-1. Am. J. Respir. Crit. Care Med. 151:A159, 1995.
224. Bachurski, C.J., Pryhuber, G.S., Kelly, S.E., Glasser, S.W. and Whitsett, J.A.: TNF- α inhibits surfactant protein-C transcription in murine lung epithelial cells *in vivo* and *in vitro*. Am. J. Respir. Crit. Care Med. 151:A829, 1995.
225. Ikegami, M., Jobe, A.H., Ueda, T., Hull, W., Whitsett, J.A., Mulligan, R.C. and Dranoff, C.: Surfactant metabolism and function in granulocyte-macrophage-colony stimulating factor deficient (GM-CSF-) mice. Am. J. Respir. Crit. Care Med. 151:A313, 1995.
226. Enclow, R.I., Kerlakian, C., Whitsett, J.A. and Braciale, T.J.: A mucosal antigen elicits specific CD8+ T-cell tolerance but preserved CD4+ T-cell reactivity, regardless of thymic expression: implications for T-cell mediated lung injury. Am. J. Respir. Crit. Care Med. 151:A233, 1995.
227. Huffman, J.A., Wert, S.E., Dranoff, G., Mulligan, R.C. and Whitsett, J.A.: Macrophages accumulate in lungs of transgenic mice bearing a tissue-specific SP-C-GM-CSF chimeric gene. Pediatr. Res. 37:392A, 1995.
228. Zsengeller, Zs., Wert, S., Hu, X., Trapnell, B. and Whitsett, J.A.: Recombinant adenoviral vector alters epithelial cell turnover and surfactant proteins in mouse lung. Pediatr. Res. 37:397A, 1995.
229. Wert, S.E., Profitt, S.A., Vorbroker, D.K., Hull, W.M., Noguee, L.M. and Whitsett, J.A.: Immunohistochemical analysis of surfactant protein B (SP-B) deficiency in patients with heterogenic SP-B mutations. Pediatr. Res. 37:356A, 1995.
230. Stahlman, M.T., Gray, M.E., Whitsett, J.A.: Expression of TTF1 in the developing and neonatal human lung. Pediatr. Res. 37:352A, 1995.
231. Zsengeller, Zs., Sawchuk, S., Boivin, G., Trapnell, B., Whitsett, J. and Hirsch, R.: Anti-T cell receptor (TCR) antibody prolongs gene expression and reduces lung inflammation after adenoviral Av1Luc1 mediated gene transfer. Submitted to 9th Congress of Immunology.

232. Yarus, S., Greenberg, N.M., Whitsett, J., Weaver, T. and Rosen, J.M.: *In vitro* processing of human surfactant protein B produced in milk of transgenic mice. Presented at "Exploring Transgenic Technology for Commercial Development," San Diego, CA, November 30, 1995.
233. Korfhagen, T., Bruno, M., Ross, G., Huelsman, K. and Whitsett, J.: Gene targeting of the mouse surfactant protein-A-(SP-A) locus does not inhibit perinatal adaptation to air breathing. Pediatr. Pulm., Sup. 12:273, 1995.
234. Hardie, W., Kerlakian, C., Bruno, M., Huelsman, K., Whitsett, J. and Korfhagen, T.: TGF- α induced fibrosis is reversed in bitransgenic mice expressing mutant EGF-R. Pediatr. Pulm., Sup. 12:273, 1995.
235. Zsengeller, Zs., Trapnell, B., Whitsett, J. and Bachurski, C.: Effect of cell proliferation on gene transfer to the bronchiolar and alveolar epithelium. Pediatr. Pulm., Sup. 12:239, 1995.
236. Zsengeller, Zs., Sawchuck, S., Boivin, G., Trapnell, B., Whitsett, J. and Hirsch, R.: Anti-T cell receptor (TCR) antibody prolongs gene expression and reduces lung inflammation after adenoviral Av1Luc1 mediated gene transfer. Pediatr. Pulm., Sup. 12:223, 1995.
237. Chronos, Z.C., Shepherd, V.L., Rice, W.R. and Whitsett, J.A.: Identification and partial purification of a novel surfactant protein A receptor from rat lung membranes. Molecular Biology of the Cell 6(Supplement):176a, 1995.
238. Sever, Z., Yan, C. and Whitsett, J.A.: Distinct *in vitro* regulation of murine surfactant B gene transcription by TTF-1 and AP1. Molecular Biology of the Cell 6 (Supplement):416a, 1995.
239. Ikeda, K., Shaw-White, J., Wert, S.E. and Whitsett, J.A.: HNF-3 β activates transcription of the human TTF-1 gene in respiratory epithelial cells. Am. J. Respir. Crit. Care Med. 153:A226, 1996.
240. Hardie, W., Kerlakian, C., Bruno, M., Huelsman, K., Wert, S., Whitesett, J. and Korfhagen, T.: Reversal of TGF- α induced lung pathology by expression of a mutant EGF-R in transgenic mice. Am. J. Respir. Crit. Care Med. 153:A511, 1996.
241. Bruno, M.D., Huelsman, K.A., Fink, I., Whitsett, J.A. and Korfhagen, T.R.: Transcriptional control of the mouse SP-A gene. Am. J. Respir. Crit. Care Med. 153:A229, 1996.
242. Korfhagen, T., Bruno, M., Huelsman, K., Ross, G., Wert, S., Morris, R., Stripp, B., Iwamoto, H., Ikegami, M., Jobe, A. and Whitsett, J.: Gene targeting of the mouse SP-A gene by homologous recombination: lack of tubular myelin and normal lung function. Am. J. Respir. Crit. Care Med. 153:A765, 1996.
243. Zhang, L., Whitsett, J.A. and Stripp, B.R.: Clara cell secretory protein (CCSP) gene is regulated by thyroid transcription factor-1 (TTF-1). Am. J. Respir. Crit. Care Med. 153:A229, 1996.
244. Clark, J.C., Hull, W.M., Iwamoto, H.S., Leikauf, G.D., Carrigan, P., Jobe, A.H., Ikegami, M., Weaver, T.E. and Whitsett, J.A.: Pulmonary function in heterozygous and homozygous SP-B deficient mice. Am. J. Respir. Crit. Care Med. 153:A765, 1996.
245. Tichelaar, J.W. and Whitsett, J.A.: Reversible, cell-type specific regulation of genes under control of the surfactant protein-C (SP-C) promoter using the tetracycline regulatory system. Am. J. Respir. Crit. Care Med. 153:A665, 1996.
246. Yan, C. and Whitsett, J.A.: Structure and function of thyroid transcription factor 1 in pulmonary epithelial cells. Am. J. Respir. Crit. Care Med. 153:A664, 1996.
247. Bachurski, C.J., Currier, T.A., Kelly, S.E., Glasser, S.W. and Whitsett, J.A.: A nuclear factor 1-like protein interacts with two sites in the promoter region of the mouse surfactant protein-C gene. Am. J. Respir. Crit. Care Med. 153:A228, 1996.

248. Baughman, R.P., Whitsett, J.A., Pattishall, E., Keeton, D.A., Waide, J.J. and Henderson, R.F.: Serial determinations of surfactant in patients with acute respiratory distress syndrome. Am. J. Respir. Crit. Care Med. 153:A596, 1996.
249. Plopper, C., Helton, C., Weir, A., Lakritz, J., Whitsett, J. and Korfhagen, T.: Quantitative comparison of collagen compartmentalization in lungs of transgenic mice expressing transforming growth factor- α . Am. J. Respir. Crit. Care Med. 153:A761, 1996.
250. Jobe, A.H., Ikegami, M., Yei, S., Trapnell, B. and Whitsett, J.A.: Aerosolized and instilled adenoviral mediated gene transfer in the lungs: distribution and surfactant effects. Am. J. Respir. Crit. Care Med. 153:A114, 1996.
251. Noguee, L., Hull, W., Whitsett, J. and Wert, S.: Surfactant protein (SP) B deficiency in neonates with severe respiratory failure. Pediatr. Res. 39:343A, 1996.
251. Zeng, X., Wert, S., Federici, R., Peters, K. and Whitsett, J.: Expression of VEGF in the respiratory epithelium disrupts lung morphogenesis *in vivo*. Pediatr. Res. 39:70A, 1996.
252. Wert, S.E., Proffitt, S.A., Kirwin, K.L., Langston, C. and Whitsett, J.A.: Acinar dysplasia is associated with the absence of TTF-1 and HNF-3B expression during human lung development. Pediatr. Res. 39:355A, 1996.
253. Khor, A., Whitsett, J.A., Stephenson, M., P.T. Cagle: Correlation between immunoreactivity for surfactant protein B precursor and better prognosis in early stage adenocarcinoma of lung. Mod. Pathol. 9:158A, 1996.
254. Jain-Vora, S., Rankin, J.A., Trapnell, B. and Whitsett, J.A.: Response to adenoviral mediated gene transfer in mice expressing IL-4 in respiratory epithelial cells. Pediatr. Pulm., Sup. 13:332, 1996.
255. Harrod, K.S., Hermiston, T.W., Trapnell, B.C., Wold, W.S.M. and Whitsett, J.A.: Transgenic models of the adenoviral genes E3gp19k and E3-14.7k for studying adenoviral vector pathogenesis. Pediatr. Pulm., Sup. 13:257, 1996.
256. Zhou, L., Graeff, R.W., McCray, P.B. Jr., Simonet, W.S. and Whitsett, J.A.: Keratinocyte growth factor inhibits aENaC mRNA expression and stimulates fluid secretion in the fetal lung *in vitro*. Pediatr. Pulm., Sup. 13:238, 1996.
257. Duncan, J.E., Whitsett, J.A. and Horowitz, A.D.: Pulmonary surfactant inhibits cationic lipid-mediated gene delivery to pulmonary epithelial cells *in vitro*. Pediatr. Pulm., Sup. 13:263, 1996.
258. Harris, C., Whitsett, J. and Korfhagen, T.: Transcriptional activity of bovine tap gene sequences for targeting gene expression to upper airway epithelium. Pediatr. Pulm., Sup. 13:277, 1996.
259. LeVine, A.M., Bruno, M.D., Whitsett, J.A. and Korfhagen, T.R.: Group B streptococcal infection in SP-A deficient mice. Pediatr. Pulm., Sup. 13:332, 1996.
260. Zsengeller, Zs., Wert, S., Bachurski, C., Trapnell, B. and Whitsett, J.: Recombinant adenoviral vector (Av1Luc1) disrupts surfactant homeostasis in mouse lung. Pediatr. Pulm., Sup. 13:274, 1996.
261. Yan, C. and Whitsett, J.A.: Tissue specific thyroid transcription factor 1 is phosphorylated by protein kinase A in lung cells. Presented at the Summer symposium of the American Society of Biochemistry and Molecular Biology, 1996.
262. Harrod, K.S., Hermiston, T.W., Trapnell, B.C., Wold, W.S.M. and Whitsett, J.A.: Lung-specific expression of the adenoviral E3-14.7K gene in transgenic mice attenuates adenoviral vector-induced host immune responses. Am. J. Respir. Crit. Care Med. 155:A457, 1997.

263. Zhou, L., Dey, C.R., Wert, S.E., Costa, R.H. and Whitsett, J.A.: Hepatocyte nuclear factor-3 β inhibits lung morphogenesis and cytodifferentiation *in vivo*. Am. J. Respir. Crit. Care Med. 155:A748, 1997.
264. Tokieda, K., Clark, J.C., Weaver, T.E., Jobe, A.H., Ikegami, M., Whitsett, J.A. and Iwamoto, H.S.: Pulmonary dysfunction in neonatal SP-B deficient mice. Am. J. Respir. Crit. Care Med. 155:A214, 1997.
265. LeVine, A.M., Bruno, M., Whitsett, J. and Korfhagen, T.: Surfactant protein-A in pulmonary host defense against bacterial pathogens *in vivo*. Am. J. Respir. Crit. Care Med. 155:A214, 1997.
266. Bruno, M., Huelsman, K., Fink, I., Whitsett, J.A. and Korfhagen, T.: Transcriptional regulation of the mouse SP-A gene by TTF-1 and Myb. Am. J. Respir. Crit. Care Med. 155:A695, 1997.
267. Jain-Vora, S., Rankin, J.A., Trapnell, B. and Whitsett, J.A.: Effect of adenoviral infection of mice overexpressing IL-4 airway epithelial cells. J. Allergy Clin. Immunol. 99:S168, 1997.
268. Stahlman, M.T., Gray, M.E. and Whitsett, J.A.: Temporal-spatial expression of the HNF-3 β in the developing human lung. Pediatr. Res. 41:53A, 1997.
269. Akinbi, H.T., Breslin, J.S., Ikegami, M., Iwamoto, H.S., Clark, J.C., Whitsett, J.A., Jobe, A.H. and Weaver, T.E.: Function of the C-terminal propeptide of surfactant protein B (SP-B). Pediatr. Res. 41:40A, 1997.
270. Khor, A., Whitsett, J.A., Stahlman, M.T., Stephenson, M., Cagle, P.T.: Thyroid transcription factor-1 (TTF-1) differentiates adenocarcinoma of the lung from malignant mesothelioma. Mod. Pathol. 10(1):166A, 1997.
271. Hassenbein, D.G., Whitsett, J.A., Dey, C., Leikauf, G.D., Oberdörster, G. and Driscoll, K.E.: Development of a transgenic mouse with lung specific expression of macrophage inflammatory protein-2. Am. J. Respir. Crit. Care Med. 155:A463, 1997.
272. Carrigan, P.E., Driscoll, K.E., Hassenbein, D., Whitsett, J.A. and Leikauf, G.D.: Ozone induced neutrophil infiltration in the lungs of mice expressing macrophage inflammatory protein-2 (MIP-2). Am. J. Respir. Crit. Care Med. 155:A463, 1997.
273. Khor, A., Whitsett, J.A., Stahlman, M.T., Stephenson, M. and Cagle, P.T.: Immunoreactivity for thyroid transcription factor-1 (TTF-1) correlates with better prognosis in early stage adenocarcinoma of the lung. Am. J. Respir. Crit. Care Med. 155:A36, 1997.
274. Mittereder, N., Harrod, K., Whitsett, J. and Trapnell, B.C.: Adenovirus-mediated pulmonary gene transfer is significantly inhibited by nonspecific, vector-induced inflammation. Am. J. Respir. Crit. Care Med. 155:A458, 1997.
275. Ross, G., Bruno, M., Uyeda, M., Suzuki, K., Nagao, K., Whitsett, J. and Korfhagen, T.: Enhanced reporter gene expression in cells transfected in the presence of DMI-2, an acid nuclease inhibitor. Pediatr. Pulm., Sup. 14:284, 1997.
276. Zsengeller, Zs.K., Halbert, C.L., Whitsett, J.A. and Bachurski, C.J.: Limitations of retroviral mediated gene delivery to respiratory epithelial cells. Pediatr. Pulm., Sup. 14:278, 1997.
277. LeVine, A.M., Kurak, K.E., Bruno, M.D., Whitsett, J.A. and Korfhagen, T.R.: *Pseudomonas aeruginosa* infection in SP-A deficient mice. Pediatr. Pulm., Sup. 14:285, 1997.
278. Jain-Vora, S., LeVine, A.M., Rankin, J.A. and Whitsett, J.A.: Interleukin-4 causes enhanced clearance of *pseudomonas aeruginosa* from mouse lung. Pediatr. Pulm., Sup. 14:285, 1997.
279. Otake, K., Ennist, D.L., Mittereder, N., Harrod, K., Whitsett, J.A. and Trapnell, B.C.: Adenovirus-mediated pulmonary gene transfer is significantly inhibited by nonspecific, vector-induced inflammation. Pediatr. Pulm., Sup. 14:260, 1997.

280. Harlamert, H.A., Mira, J., Yassin, R., Bejarano, P.A., Baughman, R., Miller, M.A. and Whitsett, J.: Distinguishing primary lung adenocarcinomas from metastatic breast adenocarcinomas in cytology specimens using TTF-1 and cytokeratins 7 and 20. Mod. Pathol. 10:A185, 1997.
281. Bohinsky, R., Bejarano, P.A., Miller, M.A., Balko, G., Warnick, R. and Whitsett, J.: Thyroid transcription factor (TTF-1), a regulator of lung surfactant protein gene: expression in metastatic adenocarcinomas to the brain. Mod. Pathol. 10:A939, 1997.
282. Haberman, B.E., Wert, S.E., Whitsett, J.A. and Iwamoto, H.S.: Effects of perfluorocarbon in spontaneously breathing mice. Pediatr. Res. 43:283A, 1998.
283. Stahlman, M.T., Gray, M.E., Whitsett, J.A. and Weaver, T.E.: Abnormal lamellar body formation in SP-B deficient mice. Pediatr. Res. 43:55A, 1998.
284. LeVine, A.M., Kurak, K., Bruno, M., Wright, J.R., Watford, W., Ross, G., Whitsett, J. and Korfhagen, T.: Surfactant protein-A (SP-A) binds group B streptococcus (GBS) enhancing phagocytosis and clearance from lungs of SP-A deficient mice. Am. J. Respir. Crit. Care Med. 157:A865, 1998.
285. Wert, S.E., Profitt, S.A., Whitsett, J.A. and Nogee, L.M.: Reduced surfactant protein C expression in full-term infants with respiratory distress syndrome. Pediatr. Res. 43:303A, 1998.
286. Bruno, M.D., Fink, I.M., Kurak, K.E., Whitsett, J.A. and Korfhagen, T.R.: Transcriptional regulation of the mouse SP-A gene is modulated by mutations in the TTF-1 and NF-1 binding sites. Am. J. Respir. Crit. Care Med. 157:A431, 1998.
287. Hardie, B., Prows, D., Carrigan, P., Leikauf, G., Whitsett, J. and Korfhagen, T.: TGF- α protects the lung from ultrafine particle injury. Am. J. Respir. Crit. Care Med. 157:A16, 1998.
288. Harrod, K.S., Mounday, A., Stripp, B.R. and Whitsett, J.A.: Increased lung inflammation and cytokine expression in Clara cell-specific protein (CCSP) homozygous null mice following adenoviral vector administration. Am. J. Respir. Crit. Care Med. 157:A582, 1998.
289. Harrod, K.S., Mounday, A. and Whitsett, J.A.: LPS-induced lung infiltration and epithelial cell injury is attenuated in SPC/E3-14.7K transgenic mice. Am. J. Respir. Crit. Care Med. 157:A501, 1998.
290. Harris, C., Linke, M., Walzer, P., Bruno, M., Whitsett, J. and Korfhagen, T.: Increased *P. carinii* infection in lungs of SP-A deficient mice. Am. J. Respir. Crit. Care Med. 157:A236, 1998.
291. Kelly, S.E., Burhans, M.S., Whitsett, J.A. and Glasser, S.W.: Combinatorial interactions modulate transcription of the murine SP-C promoter. Am. J. Respir. Crit. Care Med. 157:A431, 1998.
292. Reed, J.A., Zsengeller, Zs., LeVine, A.M., Whitsett, J.A. and Bachurski, C.J.: Adenoviral-mediated GM-CSF prevents progression of pulmonary alveolar proteinosis in GM-CSF-deficient mice. Am. J. Respir. Crit. Care Med. 157:A565, 1998.
293. Tichelaar, J.W., Lim, L., Costa, R.H. and Whitsett, J.A.: Misexpression of the winged-helix transcription factor HFH-4 in the distal lung epithelium of transgenic mice results in abnormal epithelium that appears developmentally delayed. Am. J. Respir. Crit. Care Med. 157:A14, 1998.
294. Tokieda, K., Whitsett, J.A., Hull, W.M. and Iwamoto, H.S.: SP-B deficient mice are susceptible to hypoxic lung injury. Am. J. Respir. Crit. Care Med. 157:A558, 1998.
295. Wert, S.E., Profitt, S.A., Whitsett, J.A. and Nogee, L.M.: Distinct patterns of surfactant protein (SP) expression in neonatal lung disease. Am. J. Respir. Crit. Care Med. 157:A698, 1998.

296. Yan, C., Zeng, X., Whitsett, J.A. and Ghaffari, M.: Nuclear localization domain of thyroid transcription factor-1 in respiratory epithelial cells. Am. J. Respir. Crit. Care Med. 157:A430, 1998.
297. Yan, C., Ghaffari, M., Whitsett, J.A., Zeng, X., Sever, Z. and Lin, S.: Retinoic acid receptor activation of SP-B gene transcription in respiratory epithelial cells. Am. J. Respir. Crit. Care Med. 157:A428, 1998.
298. Ikegami, M., Korfhagen, T.R., Whitsett, J.A., Bruno, M.D. and Jobe, A.H.: Characteristics of surfactant from SP-A deficient mice. Am. J. Respir. Crit. Care Med. 157:A561, 1998.
299. Wong, H.R., Menendez, I.Y., Ryan, M.A., Whitsett, J.A. And Wispé, J.R.: HSP-70 protects respiratory epithelium against hyperoxia. Am. J. Respir. Crit. Care Med. 157:A890, 1998.
300. Sekhon, H.S., Jia, Y., Raab, R., Whitsett, J.A., Lindstrom, J. and Spindel, E.R.: Interaction of nicotine with nicotinic cholinergic receptors in fetal rhesus monkey lung. Submitted to the Society for Neuroscience.
301. Sever-Chroneos, Z., Bachurski, C.J. and Whitsett, J.A.: Murine SP-B gene transcription is regulated by combinatorial interactions among TTF-1, NF1 and AP-1. Submitted to the American Society for Cell Biology.
302. Ghaffari, M., Whitsett, J.A. and Yan, C.: Transactivation of SP-B gene promoter by retinoic acid receptors in respiratory epithelial cells. Keystone Symposia on Molecular and Cell Biology (international), Lake Tahoe, Nevada, 1998.
303. Byrd-Gloster, A.L., Cagle, P.T., Glass, L.F., Messina, J.L., Whitsett, J.A. and Khor, A.: Thyroid transcription factor 1 (TTF-1) differentiates between small cell carcinoma of the lung and Merkel cell tumor. Submitted to USCAP.
304. Zhou, H., Morotti, R.A., Profitt, S.A., Langston, C., Wert, S.E., Whitsett, J.A. and Greco, M.A.: Thyroid transcription factor 1, surfactant proteins and Clara cell secretory protein in pulmonary hypoplasia. Lab. Invest. 79:7P, 1999.
305. Morotti, R., Gutierrez, M.C., Askin, F., Profitt, S.A., Wert, S.E., Whitsett, J.A., and Greco, M.A.: Expression of thyroid transcription factor 1 (TTF-1) in congenital cystic adenomatoid malformation (CCAM) of the lung. Lab. Invest. 79:3P, 1999.
306. Ikegami, M., Chronos, Z., Whitsett, J. and Jobe, A.: Interleukin-4 alters surfactant saturated phosphatidylcholine metabolism. Am. J. Respir. Crit. Care Med. 159:A895, 1999.
307. Bruno, M.D., Fink, I., Korfhagen, T.R. and Whitsett, J.A.: GATA-6 enhances mouse SP-A transcription. Am. J. Respir. Crit. Care Med. 159:A725, 1999.
308. Yan, C., Whitsett, J.A. and Ghaffari, M.: A dominant negative retinoic acid receptor inhibits the hSP-B promoter in respiratory epithelial cells. Am. J. Respir. Crit. Care Med. 159:A907, 1999.
309. Yan, C., Ghaffari, M., Johnson, J., Whitsett, J.A. and Naltner, A.: RAR/RXR activation of the hSP-B promoter is TTF-1 dependent in respiratory epithelial cells. Am. J. Respir. Crit. Care Med. 159:A726, 1999.
310. LeVine, A.M., Gwozdz, J., Stark, J., Bruno, M., Whitsett, J. and Korfhagen, T.: Surfactant protein-A enhances clearance of respiratory syncytial virus *in vivo*. Am. J. Respir. Crit. Care Med. 159:A18, 1999.
311. Glasser, S., Burhans, M., Kelly, S., Bruno, M. and Whitsett, J.: The surfactant protein C gene is regulated by combinatorial binding of factors to the proximal promoter. Am. J. Respir. Crit. Care Med. 159:A907, 1999.
312. Hayashida, S., Harrod, K.S., Stripp, B.R. and Whitsett, J.A.: Increased lung inflammation in Clara cell secretory protein-deficient mice during acute pseudomonas pneumonia. Am. J. Respir. Crit. Care Med. 159:A253, 1999.

313. Reed, J.A., Whitsett, J.A., Begley, C.G., Robb, L. and Ikegami, M.: Surfactant metabolism in granulocyte-macrophage colony-stimulating factor receptor beta subunit-deficient mice. Am. J. Respir. Crit. Care Med. 159:A506, 1999.
314. Zeng, X., Zhou, L. and Whitsett, J.A.: TGF- β 1 inhibits epithelial cell differentiation and vascular development in fetal mouse lung *in vivo*. Am. J. Respir. Crit. Care Med. 159:A23, 1999.
315. Tichelaar, J.W. and Whitsett, J.A.: Doxycycline control of FGF-7 expression in the lungs of transgenic mice. Am. J. Respir. Crit. Care Med. 159:A22, 1999.
316. Whitsett, J.A., Wert, S.E., Jones T., Fisher, J. and Korfhausen, T.R.: Spontaneous emphysema in SP-D gene targeted mice. Am. J. Respir. Crit. Care Med. 159:A729, 1999.
317. Harrod, K.S., LeVine, A.M., Bruno, M.D., Ross, G.F., Korfhausen, T.R. and Whitsett, J.A.: Increased lung inflammation in surfactant protein A-deficient mice following acute adenoviral infection *in vivo*. Am. J. Respir. Crit. Care Med. 159: A18, 1999.
318. Jones, T., Wert, S.E., Korfhausen, T.R., Fisher, J. and Whitsett, J.A.: Pulmonary emphysema in SP-D gene-targeted mice. Submitted to The National Student Research Forum, University of Texas Medical Branch, Galveston, TX, April 8-10, 1999. (Unpublished, presentation only).
319. Whitsett, J.A., LeVine, A.M., Fisher, J. and Korfhausen, T.R.: Use of gene targeting for analysis of SP-A structure and function *in vivo*. Submitted to the Benzon Symposium No. 46, Copenhagen.
320. Tokieda, K., Ikeda, K., Ikegami, M., Wert, S.E., Baatz, J.E. and Whitsett, J.A.: SP-B corrects oxygen induced pulmonary dysfunction in heterozygous SP-B deficient mice. Am. J. Respir. Crit. Care Med. 159:A506, 1999.
321. Sekhon, H.S., Jia, Y., Raab, R., Kuryatov, A., Whitsett, J.A., Lindstrom, J. and Spindel, E.R.: Prenatal nicotine exposure increases α 7 nicotinic acetylcholine receptor expression in pulmonary cells and alters fetal lung development. Am. J. Respir. Crit. Care Med. 159:A664, 1999.
322. Fisher, J.H., Sheftelvelich, V., Millikan, D., Fligiel, S., Hatfield, J., Voelker, D., Whitsett, J. A. and Korfhausen, T.R.: SP-D regulates alveolar macrophage abundance and morphology. Am. J. Respir. Crit. Care Med. 159:A730, 1999.
323. Jones, J.R., Buckley, J., Whitsett, J.A., Lindsey, J.R., dey, C.R., Colledge, W.H., Evans, M.J., Sorscher, E.J. and Bedwell, D.M.: Generation of a transgenic mouse expressing a human CFTR-G542X cDNA in a null CFTR background. Submitted to the 13th Annual North American Cystic Fibrosis Conference, 1999.
324. Wert, S., Jones, T., Korfhausen, T., Fisher, J. and Whitsett, J.: Spontaneous emphysema in SP-D gene-targeted mice. 42nd Annual Meeting, Thomas L. Petty Aspen Lung Conference, Aspen, CO, June 2-5, 1999 (abstract presentation - poster). Chest 117:248S, 2000.
325. Yan, C., Naltner, A., Whitsett, J.A. and Ghaffari, M.: Retinoic acid stimulation of the HSP-B promoter is TTF-1 site dependent. Am. J. Respir. Crit. Care Med. 161:A734, 2000.
326. Yan, C., Whitsett, J.A. and Nalter, A.: Differential expression of SRC-1, CBP/P300 and TTF-1 in mouse lung development. Am. J. Respir. Crit. Care Med. 161:A732, 2000.
327. Perl, A-K., Tichelaar, J. and Whitsett, J.: Regulation of lung specific gene expression with SP-C rtTA and CCSP rtTA transgenic mice. Am. J. Respir. Crit. Care Med. 161:A563, 2000.

328. LeVine, A.M., Gwozdz, J., Fisher, J., Whitsett, J. and Korfhagen, T.: Surfactant protein-D modulates lung inflammation with respiratory syncytial virus infection *in vivo*. Am. J. Respir. Crit. Care Med. 161:A515, 2000.
329. Hayashida, S., Harrod, K.S. and Whitsett, J.A.: Role of Clara cell secretory protein in the endotoxin-induced neutrophil migration into the lung. Am. J. Respir. Crit. Care Med. 161:847, 2000.
330. Clark, J.C., Tichelaar, J.W., Itoh, N. and Whitsett, J.A.: FGF-10 causes pulmonary tumors in the lungs of transgenic mice. Am. J. Respir. Crit. Care Med. 161:A521, 2000.
331. Wert, S.E., Dey, C., Blair, P. and Whitsett, J.A.: Dose-dependent expression of thyroid transcription factor-1 (TTF-1) in transgenic mice. Am. J. Respir. Crit. Care Med. 161:A523, 2000.
332. Glasser, S.W., Burhans, M.S., Korfhagen, T.R., Bruno, M.D., Ross, G.F., Wert, S.E., Ikegami, M., Jobe, A.H. and Whitsett, J.A.: Generation of an SP-C deficient mouse by targeted gene inactivation. Am. J. Respir. Crit. Care Med. 161:A43, 2000.
333. Zsengellér, Z.K., Ross, G.F., Trapnell, B.C., Szabó, C. and Whitsett, J.A.: Increased inducible nitric oxide synthase and peroxynitrite production after administration of adenovirus to the lung. Am. J. Respir. Crit. Care Med. 161:A30, 2000.
334. Hull, W., Stahlman, M., Gray, M.P., Wert, S. and Whitsett, J.: Immunolocalization of SP-D in human secretory tissues. Am. J. Respir. Crit. Care Med. 161:A42, 2000.
335. Yoshida, M., Ikegami, M., Reed, J.A., Chroneos, Z.C. and Whitsett, J.A.: GM-CSF regulates surfactant catabolism by alveolar macrophages. Am. J. Respir. Crit. Care Med. 161:A656, 2000.
336. Tichelaar, J.W., Lu, W. and Whitsett, J.A.: Doxycycline-inducible expression of fibroblast growth factor-7 (FGF-7) in the respiratory epithelium of transgenic mice results in reversible epithelial hyperplasia. Am. J. Respir. Crit. Care Med. 161:A450, 2000.
337. Tichelaar, J.A., Giglia, M. and Whitsett, J.A.: Doxycycline-inducible expression of granulocyte macrophage-colony stimulating factor (GM-CSF) in the lungs of transgenic mice causes recruitment of macrophages and alveolar remodeling. Am. J. Respir. Crit. Care Med. 161:A465, 2000.
338. Korfhagen, T.R., Bruno, M.D., Silver, J.A., Whitsett, J.A. and LeVine, A.M.: Enhanced K. pneumoniae pulmonary infection in mice lacking SP-A. Am. J. Respir. Crit. Care Med. 161:A514, 2000.
339. Chroneos, Z., Faske, S., Strub, B., Reed, J.A., Yoshida, M., Trapnell, B.C. and Whitsett, J.A.: Expression of the surfactant protein A receptor, SP-R210 is regulated during macrophage differentiation. Am. J. Respir. Crit. Care Med. 161:A246, 2000.
340. Chroneos, Z.C., Livingston, J., Hassett, D.A., Wert, S.E. and Whitsett, J.A.: Lack of correlation between CFTR expression and clearance of *Pseudomonas aeruginosa* *in vivo*. Am. J. Respir. Crit. Care Med. 161:A757, 2000.
341. Trapnell, B.C., Zsengeller, Z., Chroneos, Z.C., Whitsett, J.A. and Berclaz, Y-P.: Alveolar macrophages from granulocyte-monocyte colony stimulating factor (GM-CSF) deficient mice are arrested at an early differentiation stage. Am. J. Respir. Crit. Care Med. 161:A667, 2000.
342. Zsengeller, Z., Galvinas, H., Otake, K., Whitsett, J.A. and Trapnell, B.C.: Alveolar macrophage-mediated adenovirus uptake and clearance from the lung is modulated by granulocyte-monocyte colony stimulating factor. Am. J. Respir. Crit. Care Med. 161:A901, 2000.

343. Chroneos, Z.C., Faske, S., Christian, R.E., Settlege, R.E., Shabanowitz, J., Hunt, D.F., Trapnell, B.C. and Whitsett, J.A.: Molecular composition of the macrophage SP-R210 signaling complex. Am. J. Respir. Crit. Care Med. 161:A514, 2000.
344. Ikegami, M., Whitsett, J.A., Jobe, A.H., Ross, G.F., Fisher, J. and Korfhausen, T.R.: Alterations in surfactant homeostasis resulting from SP-D deficiency. Am. J. Respir. Crit. Care Med. 161:A44, 2000.
345. Ikegami, M., Jobe, A.H., Whitsett, J.A. and Korfhausen, T.R.: SP-A deficient mice tolerate to stress without changes in surfactant pool size. Am. J. Respir. Crit. Care Med. 161:A44, 2000.
346. Nogee, L.M., Wert, S.E., Hamvas, A., Hull, W. and Whitsett, J.A.: Phenotypic variability in hereditary surfactant protein B (SP-B) deficiency and correlation with genotype. Am. J. Respir. Crit. Care Med. 161:A523, 2000.
347. Hardie, W.D., Piljan-Gentle, A., Ikegami, M., Whitsett, J.A. and Korfhausen, T.R.: Alveolar emphysema & lung remodeling in transforming growth factor α (TGF α) transgenic mice. Am. J. Respir. Crit. Care Med. 161:A163, 2000.
348. Greene, K.E., Whitsett, J.A., Korfhausen and Fisher, J.H.: SP-D expression regulates endotoxin mediated lung inflammation *in vivo*. Am. J. Respir. Crit. Care Med. 161:A515, 2000.
349. Palaniyar, N., Korfhausen, T.R., Whitsett, J.A. and McCormack, F.X.: The N-terminal segment of SP-D can functionally replace the N-terminal segment of SP-A for tubular myelin formation *in vivo*. Am. J. Respir. Crit. Care Med. 161:A42, 2000.
350. Palaniyar, N., Korfhausen, T.R., Whitsett, J.A. and McCormack, F.X.: The collagen-like domain of surfactant protein A is essential for the formation of tubular myelin *in vitro* and *in vivo*. Am. J. Respir. Crit. Care Med. 161:A657, 2000.
351. McCormack, F.X., Ikegami, M., LeVine, A.M., Korfhausen, T.R., Whitsett, J.A. and Dienger, K.: *In vivo* structure/function analyses of surfactant protein. Am. J. Respir. Crit. Care Med. 161:A42, 2000.
352. Paine, R., Preston, A.M., Wilcoxon, S.E., Jin, H., Siu, B.B., Morris, S.B., Reed, J.A., Ross, G., Whitsett, J.A. and Beck, J.M.: GM-CSF in the innate immune response to *Pneumocystis carinii* pneumonia in mice. Am. J. Respir. Crit. Care Med. 161:A510, 2000.
353. Stahlman, M.T., Gray, M.P., Hull, W.H., Wert, S. and Whitsett, J.A.: Localization of SP-D in human secretory tissues. Submitted to the Society for Pediatric Research for the 2000 Meeting.
354. Stahlman, M.T., Gray, M.P., Hull, W.H., Wert, S. and Whitsett, J.A.: Temporal-spatial distribution of SP-D in human fetuses and newborns with hyaline membrane disease (HMD) and bronchopulmonary dysplasia (BPD). Submitted to the Society for Pediatric Research for the 2000 Meeting.
355. Khor, A., Stahlman, M.T., Gray, M.E. and Whitsett, J.A.: Expression of hepatocyte nuclear factor-3 β (HNF-3 β) in lung tumors. Mod. Pathol. 13:211A, 2000.
356. Glasser, S.W., Burhans, M.S., Korfhausen, T.R., Ross, G.F., Ikegami, M. and Whitsett, J.A.: Targeted disruption of the murine SP-C gene *in vivo*. Submitted to the Eighth Conference on Lung Cell Biology, 2000.
357. Yoshida, M., Wert, S.E., LeVine, A.M., Ikegami, M., Jones, T., Ross, G.F., Korfhausen, T.R. and Whitsett J.A.: Oxidative stress in the lungs of surfactant protein D gene-inactivated mice. Submitted to the Cystic Fibrosis Foundation, 2000.

358. Korfhagen, T.R., LeVine, A.M., Gwozdz, J.A., Richardson, T.R., Burhans, M.S. and Whitsett, J.A.: Altered bacterial clearance and enhanced inflammation in lungs of mice deficient in surfactant proteins A or D. Submitted to the Cystic Fibrosis Foundation, 2000.
359. Perl, A.K., Nagy, A. and Whitsett, J.A.: Progenitor cells in the murine respiratory epithelium identified by conditional expression of cre recombinase *in vivo*. Submitted to the Cystic Fibrosis Foundation, 2000.
360. Stahlman, M.T. and Whitsett, J.A.: Immunohistochemical localization of SP-D in pulmonary tissues in cystic fibrosis. Submitted to the Cystic Fibrosis Foundation, 2000.
361. Perl, A.K., Wert, S., Hyatt, B., Shannon, J., Impagnatiello, M.A., Christofori, G. and Whitsett, J.: Sprouty-4 inhibits pulmonary branching morphogenesis but not cellular differentiation *in vivo*. Am. J. Respir. Crit. Care Med. 163:A761, 2001.
362. Perl, A.K., Wert, S., Tichelaar, J., Nagy, A., Lobe, C. and Whitsett, J.: Commitment to form proximal or distal lung is already established in the lung primordium. Am. J. Respir. Crit. Care Med. 163:A761, 2001.
363. Tichelaar, J.W., Lu, W. and Whitsett, J.A.: Fibroblast growth factor-7 (FGF-7) induces pulmonary inflammation *in vivo*. Am. J. Respir. Crit. Care Med. 163:A758, 2001.
364. Glasser, S.W., Ikegami, M., Ross, G., Sly, P.D., Na, C-L., Korfhagen, T.R. and Whitsett, J.A.: Altered stability of pulmonary surfactant in SP-C deficient mice. Am. J. Respir. Crit. Care Med. 163:A328, 2001.
365. Liu, C., Tichelaar, J.W., Morrissey, E.E. and Whitsett, J.A.: GATA-6 regulates the development of respiratory epithelium. Am. J. Respir. Crit. Care Med. 163:A761, 2001.
366. Ikegami, M., Konkright, J., Whitsett, J., Weaver, T. and Glasser, S.: Deficiency of SP-B reveals roles of SP-C in tolerance to hyperoxia induced lung injury in mice. Am. J. Respir. Crit. Care Med. 163:A327, 2001.
367. Epaul, R., Weaver, T.E., Jobe, A.H., Whitsett, J.A., Hull, W. and Akinbi, H.T.: Surfactant protein B inhibits LPS-induced lung inflammation *in vivo*. Am. J. Respir. Crit. Care Med. 163:A273, 2001.
368. LeVine, A.M., Elliott, J., Whitsett, J. and Korfhagen, T.: Reduced expression of surface receptors on alveolar macrophages from SP-A deficient mice. Am. J. Respir. Crit. Care Med. 163:A379, 2001.
369. Kitzmiller, J.A., Whitsett, J.A. and Korfhagen, T.R.: Transcriptional antagonism of the murine surfactant protein A (SP-A) promoter by HMX. Am. J. Respir. Crit. Care Med. 163:A574, 2001.
370. Zhang, L., Ikegami, M., Crouch, E.C., Korfhagen, T.R. and Whitsett, J.A.: Activity of pulmonary surfactant protein D (SP-D) *in vivo* is dependent on oligomeric structure. Am. J. Respir. Crit. Care Med. 163:729, 2001.
371. Yoshida, M., Korfhagen, T.R. and Whitsett, J.A.: Role of reactive oxygen, NF- κ B, and metalloproteinases in the pathogenesis of emphysema in SP-D (-/-) mice. Am. J. Respir. Crit. Care Med. 163:A288, 2001.
372. Liu, C., Glasser, S.W., Yan, C. and Whitsett, J.A.: GATA-6 regulates the activity of thyroid transcription factor-1 through protein-protein interactions. Am. J. Respir. Crit. Care Med. 163:A963, 2001.
373. Hull, W.M., Whitsett, J.A. and Ikegami, M.: Independent roles of SP-D and GM-CSF in surfactant homeostasis. Am. J. Respir. Crit. Care Med. 163:A729, 2001.
374. Hardie, W.D., Piljan-Gentle, A., Dunlavy, M., Tichelaar, J.W., Whitsett, J.A. and Korfhagen, T.R.: Conditional expression of transforming growth factor- α (TGFA) in transgenic mice produces peribronchiolar and perivascular fibrosis. Am. J. Respir. Crit. Care Med. 163:A469, 2001.

375. Proskocil, B.J., Keller, J.A., Sekhon, H.S., Whitsett, J.A. and Spindel, E.R.: Prenatal nicotine exposure increases surfactant protein expression: evidence for modulation of a paracrine effect of acetylcholine on Type II cells. Am. J. Respir. Crit. Care Med. 163:A733, 2001.
376. Glasser, S.W., Burhans, M.D., Ikegami, M., Korfhagen, T.R. and Whitsett, J.A.: In vivo analysis of the SP-C gene. Appl. Cardiopulm. Pathophysiol. 9:221, 2000.
377. Bry, K., Whitsett, J.A., Tichelaar, J.W. and Lappalainen, U.: Role of IL-1 in lung development: doxycycline-inducible expression of IL-1 in the respiratory epithelium of transgenic mice. Pediatr. Res. 49:262A, 2001.
378. Melton, K.R., Whitsett, J.A., Clark, J., Tichelaar, J.W. and Weaver, T.E.: Acute RDS associated with decreased postnatal expression of SP-B. Pediatr. Res. 49:458A, 2001.
379. Nogee, L.M., Dunbar, A.E., Wert, S.E., Askin, F., Hamvas, A., White, F.V. and Whitsett, J.A.: Mutations in the surfactant protein C (SP-C) gene associated with interstitial lung disease (ILD). Pediatr. Res. 49:262A, 2001.
380. LeVine, A.M., Elliott, J., Richardson, T., Whitsett, J., and Korfhagen, T.: Reduced CD14 and toll-like receptor 4 MD-2 complexes on alveolar macrophages from SP-A deficient mice. Submitted to the Society for Pediatric Research for the 2002 Meeting.
381. Bry, K., Whitsett, J.A., Tichelaar, J.W., Wert, S. and Lappalainen, U.: Expression of IL-1 in the respiratory epithelium of transgenic mice causes lung inflammation and emphysema. Submitted for the 2002 ATS Meeting.
382. Hokuto, I., Perl, A.-K., LaRochelle, W., Whitsett, J.A.: Prenatal but not postnatal inhibition of FGF-receptor signaling causes pulmonary emphysema. Submitted for the 2002 ATS Meeting.
383. Glasser, S.W., Detmer, E.A., Ikegami, M., Ross, G.F., Wert, S.E., Na, C.-L., Stahlman, M.T. and Whitsett, J.A.: Emphysema and pulmonary fibrosis in SP-C gene targeted mice. Submitted for the 2002 ATS Meeting.
384. Kitzmiller, J.A., Whitsett, J.A. and Korfhagen, T.R.: HMX-3 inhibits NKX2.1 trans-activation of the murine surfactant protein A (SP-A) promoter. Submitted for the 2002 ATS Meeting.
385. Bachurski, C.J., Yang, G.H., Whitsett, J.A., Wert, S.E. and Hong, D.: Expression of a dominant negative nuclear factor I chimeric gene in the developing airway of the transgenic mice alters lung morphogenesis and increases neuroendocrine cells. Submitted for the 2002 ATS Meeting.
386. Perl, A.-K., LaRochelle, W., Wert, S. and Whitsett, J.A.: Conditional expression of FGFR-FC inhibits branching morphogenesis and lobulation in vivo. Submitted for the 2002 ATS Meeting.
387. Perl, A.-K., Wert, S., Nagy, A., Lobe, C., Spencer-Dene, B., Dickson, C. and Whitsett, J.A.: Conditional gene ablation in the murine lung epithelium. Submitted for the 2002 ATS Meeting.
388. Bry, K., Whitsett, J.A., Tichelaar, J.W., Wert, S. and Lappalainen, U.: Expression of IL-1 in the respiratory epithelium of transgenic mice causes lung inflammation and emphysema. Submitted for the 2002 ATS Meeting.
389. Gurel, O., Jobe, A., Korfhagen, T., Whitsett, J. and Ikegami, M.: SP-D deficiency in mice does not alter the relative type II cell and macrophage contributions to surfactant catabolism. Submitted for the 2002 ATS Meeting.
390. Yan, C., Whitsett, J.A., Kreiner, A., Naltner, A. and Yang, L.: Tissue and cell specific expression of the human SP-B promoter in the mouse lung. Submitted for the 2002 ATS Meeting.